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THE
GLASGOW UNIVERSITY
CALENDAR

FOR THE YEAR

1890-91.



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EDINBURGH : DOUGLAS AND FOULIS.
1890.

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AUGUST 1890.

1	F
2	S
3	S
4	M
5	Tu
6	W
7	Th
8	F
9	S
10	S
11	M
12	Tu
13	W
14	Th
15	F
16	S
17	S
18	M
19	Tu
20	W
21	Th
22	F
23	S
24	S
25	M
26	Tu
27	W
28	Th
29	F
30	S
31	S

SEPTEMBER 1890.

1	M
2	Tu
3	W
4	Th
5	F
6	S
7	S
8	M
9	Tu
10	W
11	Th
12	F
13	S
14	S
15	M
16	Tu
17	W
18	Th
19	F
20	S
21	S
22	M
23	Tu
24	W
25	Th
26	F
27	S
28	S
29	M
30	Tu

Names of Candidates for Ferguson Scholarships to be given in on or before this day.

Names of Candidates for First, Second, and Third Professional Examinations in Medicine, and for B.Sc. Examinations in Science, given in to Assistant-Clerk (Matriculation Office).

Names of Candidates for Examination in General Education (Medical Students), for Preliminary Examination for B.Sc., and for Preliminary Examination in French and German for B.L., given in to Assistant-Clerk (Matriculation Office).

OCTOBER 1890.

1	W	Names of Candidates for Degrees in Law and Arts, for Certificate in Engineering Science, for Certificate of Literate in Arts, for Diploma for Teachers, and for Scholarships, &c., given in to Assistant-Clerk (Matriculation Office). Names of Candidates for Bursaries in the gift of the Merchants' House, for Hutchesons' Educational Trust Bursaries, for Glasgow City Educational Endowments Bursaries, and for Hannay Bursary to be given in as directed at p. 249. Examinations for Ferguson Scholarships commence.	
		Examination in General Education for Medical Students, Preliminary Examination for Degrees in Science, and Preliminary Examination for Degree of B.L.—Arith., 9 A.M.; Lat., 12 noon; Eng., 3 P.M.	
2	Th	Do., do.,	Math., 9; Mech., 12; French, 3.
3	F	Do., do.,	Greek, 9; Logic, 12; Mor. Phil., 3.
4	S	Do., do.,	Higher Math., 9; Nat. Phil., 12; German, 3.
5	§		
6	M	{ Examinations for Degrees in Medicine and Science (Botany, Zoology, Chemistry, Geology, Geodesy). }	
7	Tu	{ Do., do., (Physiology, Anatomy, Civil Engineering, Engineering Drawing, Naval Architecture, Ship Design, Practical Chemistry). }	
8	W	Do., do. (Regional Anatomy, Materia Medica, and Pathology, Civil Engineering).	
9	Th		
10	F		
11	S		
12	§		
13	M	Matriculation for the year begins.	
14	Tu		
15	W		
16	Th		

Competition
for the Rainy
and Lorimer
Bursaries.

OCTOBER 1890.

17	F	
18	S	
19	S	
20	M	Theses for M.D. given in. Examinations in Law Subjects for Degrees in Law on this and two following days. (See p. 159.)
21	Tu	Names of Competitors for Bursaries and for Preliminary Examinations in Arts given in to Assistant-Clerk (Matriculation Office). Classes in Faculties of Law and Medicine meet. Professor Ferguson's address to Medical Students.
22	W	
23	Th	
24	F	
25	S	Names of Candidates for Entrance Examination in Arts given in to Assistant-Clerk (Matriculation Office).
26	S	
27	M	
28	Tu	Bursary Competition and Preliminary Examinations in Arts commence (See p. 249).
29	W	Meeting of the General Council.
30	Th	
31	F	Last day for receiving Tradesmen's and other Accounts for preceding half-year.

NOVEMBER 1890.

1	S	Examinations for Degrees of M.A., B.L. (Arts subjects), B.Sc. (Arts subjects), etc., begin. (See pp. 125, 135, 159.)
2	S	
3	M	
4	Tu	{ Names of Candidates for Degree of B.D. and for Bursaries in Divinity to be given in to Assistant-Clerk (Matriculation Office). Results of Bursary Competition declared. Entrance Examination in Faculty of Arts, 1st day.
5	W	{ Do., do., 2nd day. Classes in Faculty of Arts meet.
6	Th	Meeting of Senate. Election of Library and other Committees.
7	F	
8	S	Examination for Arnott Prizes at 2 P.M.
9	S	
10	M	Classes in Faculty of Divinity meet. Dr. Stewart's address.
11	Tu	
12	W	
13	Th	Examinations for B.D., and for Bursaries in Divinity, 1st day.
14	F	{ Do., do., 2nd day. Last day for giving in University Prize Essays.
15	S	Election of Rector.
16	S	
17	M	
18	Tu	
19	W	
20	Th	Graduation. Representatives at Charitable and other Boards elected. Professors' Accounts for small Class expenses to be given in.
21	F	

NOVEMBER 1890.

22	S	
23	S	
24	M	
25	Tu	
26	W	
27	Th	
28	F	[Sheriff Berry and Professors Leishman and Stewart elected Assessors in the University Court, 28th Nov., 1889.]
29	S	
30	S	

DECEMBER 1890.

1	M	{ Matriculation ends. Class List transmitted by each Professor to Assistant-Clerk (Matriculation Office).
2	Tu	
3	W	
4	Th	
5	F	
6	S	
7	S	
8	M	Payment of Tradesmen's Accounts.
9	Tu	
10	W	
11	Th	(Second Thursday.) Meeting of Senate. Class Lists examined. Election of Armagh Bursar. List of Vacant Bursaries published.
12	F	
13	S	
14	S	
15	M	
16	Tu	
17	W	
18	Th	
19	F	
20	S	
21	S	
22	M	
23	T	Last day on which the Classes meet before the Christmas Holidays.
24	W	
25	Th	
26	F	
27	S	
28	S	
29	M	
30	T	
31	W	

JANUARY 1891.

1	Th	
2	F	
3	S	
4	S	(First day on which the Classes meet after the Christmas Holidays.
5	M	(Public Health Course of Lectures commences.
6	Tu	
7	W	
8	Th	(Second Thursday.) Meeting of Senate. Vacant Bursaries filled up.
9	F	Appointment of Committees. Appointment of additional Examiners
10	S	in Arts.
11	S	
12	M	
13	Tu	
14	W	
15	Th	
16	F	
17	S	
18	S	
19	M	
20	Tu	
21	W	
22	Th	
23	F	
24	S	
25	S	
26	M	
27	Tu	
28	W	
29	Th	
30	F	
31	S	

FEBRUARY 1891.

1	S	
2	M	Holiday (Monday after last Friday of January
3	Tu	*Holiday (for Candlemas).
4	W	
5	Th	
6	F	
7	S	
8	S	
9	M	[Prof. Ramsay elected Assessor in the University Court, 9th Feb., 1888.]
10	Tu	
11	W	
12	Th	(Second Thursday.) Meeting of Senate.
13	F	
14	S	
15	S	
16	M	
17	Tu	
18	W	
19	Th	
20	F	
21	S	
22	S	
23	M	
24	Tu	
25	W	
26	Th	
27	F	
28	S	

*The Candlemas and Monthly Holidays are not observed in the Medical Faculty.

MARCH 1891.

1	S	
2	M	*Holiday (Monday after last Friday of February).
3	Tu	
4	W	
5	Th	Meeting of Senate. Reports of Committees on Honorary Degrees.
6	F	Meeting of Professors for adjudging University and other Prizes.
7	S	
8	S	
9	M	{ Last day for lodging applications for Examination for Degrees in Arts and Law, for Certificate in Engineering Science, for Certificate of Literate in Arts, and for Diploma for Teachers. Names of Candidates for First, Second, and Third Professional Examinations in Medicine, and for B.Sc. Examinations in Science, given in to Assistant-Clerk (Matriculation Office). Names of Candidates for Examination in General Education for Medical Students, for Preliminary Examination for B.Sc., and for French and German for B.L., given in to Assistant-Clerk (Matriculation Office).
10	Tu	
11	W	
12	Th	
13	F	
14	S	Last day for receiving Tradesmen's and other Accounts for preceding half-year.
15	S	
16	M	
17	Tu	
18	W	
19	Th	(Penult Thursday.) Meeting of Senate. Election of Commissioner to General Assembly. Snell Examiners appointed.
20	F	Theses for M.D. given in.
21	S	
22	S	
23	M	*Holiday (Monday after Penult Friday).
24	Tu	
25	W	Examinations in General Education for Medical Students, and Preliminary Examination for Degrees in Science—
26	Th	Arith., 9 A.M.; Latin, 12 noon; English, 3 P.M. Do., do., Math., 9; Mech., 12; French, 3.
27	F†	Do., do., Greek, 9; Logic, 12; Mor. Phil., 3.
28	S	Do., do., Higher Math., 9; Nat. Phil., 12; German, 3.
29	S	
30	M	
31	Tu	{ Professors' Accounts of Class Expenses under Ordinance to be given in. Examinations for Degrees in Medicine and Science—(Botany, Zoology, Chemistry, Geology, Geodesy).

* The Candlemas and Monthly Holidays are not observed in the Medical Faculty.

† The Winter Classes in the Faculty of Medicine close on 27th March.

APRIL 1891.

1	W*	{ Names of Candidates for Degree of B.D. to be given in to Assistant-Clerk (Matriculation Office). Examinations for Degrees in Medicine and Science—(Physiology, Anatomy, Civil Engineering, Drawing, Naval Architecture, Ship Design, Practical Chemistry).
2	Th	Do., do., (Regional Anatomy, Materia Medica, Pathology).
3	F	
4		
5	S	
6	M	
7	Tu	
8	W	Examinations in Law Subjects for Degrees in Law on this and two following days. (See p. 159).
9	Th	{ (Second Thursday.) Meeting of Senate. Examinations for Degree of B.D., 1st day.
10	F	Do., do., 2nd day.
11	S	Examinations for Degrees in Arts, Law (Arts Subjects), and Science (Arts Subjects), for Literate in Arts, for Diploma for Teachers, and for Snell Exhibitions begin (See pp. 125, 135, 159).
12	S	
13	M	Examinations for Degrees in Science—(Civil Engineering).
14	Tu	Last day for returning Books to Library.
15	W	
16	Th	
17	F	
18	S	
19	S	
20	M	

* The Winter Classes in the Faculty of Law close on 1st April.

APRIL 1891.

21	T	
22	W	(Wednesday before close of Session.) Meeting of General Council.
23	Th	Library re-opened.
24	F	Graduation in the Four Faculties. Honorary Graduation. Distribution of University Prizes.
25	S	Meeting of Senate.
26	S	
27	M	
28	Tu	
29	W	
30	Th	

MAY 1891

1	F	Summer Session begins.
2	S	
3	S	
4	M	
5	Tu	
6	W	
7	Th	
8	F	
9	S	
10	S	
11	M	Payment of Tradesmen's and other Accounts. Meeting of Faculty of Medicine.
12	Tu	
13	W	
14	Th	
15	F	
16	S	
17	S	
18	M	
19	Tu	Names of Candidates for Final Professional Examination in Medicine given in to Assistant-Clerk (Matriculation Office).
20	W	
21	Th	
22	F	
23	S	
24	S	
25	M	
26	Tu	
27	W	
28	Th	
29	F	
30	S	
31	S	

JUNE 1891.

1 M
 2 Tu
 3 W
 4 Th
 5 F
 6 S
 7 S
 8 M
 9 Tu
 10 W
 11 Th
 12 F
 13 S
 14 S
 15 M
 16 Tu
 17 W
 18 Th
 19 F
 20 S
 21 S
 22 M
 23 Tu
 24 W
 25 Th
 26 F
 27 S
 28 S
 29 M
 30 Tu

Clinical Examinations begin.

Theses for M.D. given in.

JULY 1891.

1 W
 2 Th
 3 F
 4 S
 5 S
 6 M
 7 Tu
 8 W
 9 Th
 10 F
 11 S
 12 S
 13 M
 14 Tu
 15 W
 16 Th
 17 F
 18 S
 19 S
 20 M
 21 Tu
 22 W
 23 Th
 24 F
 25 S
 26 S
 27 M
 28 Tu
 29 W
 30 Th
 31 F

Final Professional Written Examination for Degrees in Medicine on this and two following days.

Meeting of Senate. Graduation in Medicine.

UNIVERSITY OFFICERS.

	Elected.	Electors.
<i>Chancellor</i> —THE RIGHT HON. THE EARL OF STAIR, K.T., LL.D., - - - -	1884	General Council.
<i>Vice-Chancellor</i> —JOHN CAIRD, D.D., LL.D.,	1873	Chancellor.
<i>Rector</i> —THE RIGHT HON. THE EARL OF LYTTON, G.C.B., G.C.S.I., C.I.E.,	1887	{ Matriculated Students.
<i>Principal</i> —JOHN CAIRD, D.D., LL.D., -	1873	Crown.
<i>Dean of Faculties</i> —SHERIFF BERRY, LL.D., -	1890	Senate.
<i>Parliamentary Representative</i> —JAMES A. CAMPBELL, LL.D., - - - -	1880	General Council.

University Court.
THE RECTOR, *ex officio*.THE PRINCIPAL, *ex officio*.THE LORD PROVOST OF GLASGOW, *ex officio*.

	Elected.	Electors.
SIR JAMES KING, BART., LL.D., - - -	1887	Chancellor.
JAMES GRAHAME, Esq., - - - -	1887	Rector.
JAMES COLQUHOUN, Esq., - - - -	1890	{ Lord Provost, Magistrates, and Town Council of Glasgow.
R. W. COCHRAN PATRICK, LL.D., - - -	1887	{ General Council.
HECTOR C. CAMERON, M.D., - - - -	1889	
SIR JOHN N. CUTHBERTSON, - - - -	1889	
DAVID HANNAY, Esq., - - - -	1889	
PROFESSOR RAMSAY, LL.D., - - - -	1888	{ Senate.
SHERIFF BERRY, LL.D., - - - -	1889	
PROFESSOR LEISHMAN, M.D., - - - -	1889	
PROFESSOR STEWART, D.D., - - - -	1889	

Senatus Academicus.*

PRESIDENT, - - - THE PRINCIPAL, - - - 1873

PROFESSORS.

	CHAIRS.	Appointed
William Purdie Dickson, D.D., LL.D., -	<i>Divinity</i> , - -	1873
Sir William Thomson, LL.D., D.C.L., F.R.S., - - - - -	<i>Natural Philosophy</i> , -	1846
Robert Grant, LL.D., F.R.S., - -	<i>Practical Astronomy</i> , -	1859
William T. Gairdner, M.D., LL.D., -	<i>Practice of Medicine</i> , -	1862
George G. Ramsay, LL.D., - - -	<i>Humanity</i> , - -	1863
John Veitch, LL.D., - - - -	<i>Logic and Rhetoric</i> , -	1864
Edward Caird, LL.D., - - - -	<i>Moral Philosophy</i> , -	1866
John Young, M.D., - - - -	<i>Natural History</i> , -	1866
William Leishman, M.D., - - -	<i>Midwifery</i> , - -	1868
Sir George H. B. Macleod, M.D., -	<i>Surgery</i> , - -	1869
Pierce A. Simpson, M.A., M.D., -	<i>Forensic Medicine</i> , -	1872
William Stewart, D.D., - - -	<i>Biblical Criticism</i> , -	1873
George Buchanan, M.A., M.D., LL.D.,	<i>Clinical Surgery</i> , -	1874
T. M'Call Anderson, M.D., - - -	<i>Clinical Medicine</i> , -	1874
John Ferguson, M.A., LL.D., F.S.A., -	<i>Chemistry</i> , - -	1874
John Gray M'Kendrick, M.D., LL.D., F.R.S., - - - - -	<i>Institutes of Medicine</i> , -	1876
James Robertson, D.D., - - -	<i>Oriental Languages</i> , -	1877
John Cleland, M.D., LL.D., D.Sc., F.R.S., - - - - -	<i>Anatomy</i> , - -	1877
William Jack, LL.D., - - - -	<i>Mathematics</i> , - -	1879
Matthew Charteris, M.D., - - -	<i>Materia Medica</i> , -	1880
Frederick O. Bower, M.A., D.Sc., F.L.S.,	<i>Botany</i> , - -	1885

* "The precedence of the Masters in point of ceremony shall, in all time coming, be, that the Professor of Divinity take place first after the Principal, and that all the other Masters and Professors of whatever kind take place of other according to the seniority and time of their admissions into their respective offices."—*Statute of Royal Visitation, 1727.*

PROFESSORS—Continued.

CHAIRS.

Appointed

Philip Jenkins, - - - -	-	{ <i>Naval Architecture,</i> <i>including Marine</i> <i>Engineering,</i> }	1886
Robert Herbert Story, D.D., - -	-	<i>Church History,</i> -	1886
Alexander Moody Stuart, - -	-	<i>Law,</i> - - -	1887
Andrew Cecil Bradley, M.A., - -	-	{ <i>English Language</i> <i>and Literature,</i> }	1889
George G. A. Murray, B.A., - -	-	<i>Greek,</i> - - -	1889
Archibald Barr, D.Sc., - -	-	{ <i>Civil Engineering</i> <i>and Mechanics,</i> }	1889
James Moir, - - - -	-	<i>Conveyancing,</i> - -	1889

Lecturers.

John Young, M.D., - - - -	-	<i>Honyman Gillespie Lecturer.</i>
Thomas Reid, M.D., - - - -	-	<i>Waltonian Lecturer.</i>
Wm. Galbraith Miller, M.A., LL.B., -	-	<i>Public Law.</i>
Robert T. Younger, M.A., LL.B., -	-	{ <i>Constitutional Law and</i> <i>History.</i> }
David Yellowlees, M.D., LL.D., -	-	<i>Insanity.</i>
F. Max Müller, M.A., - - - -	-	{ <i>Natural Theology</i> (Gifford <i>Foundation).</i> }
Georg Fiedler, Ph.D., - - - -	-	<i>German Literature.</i>

DEMONSTRATORS AND ASSISTANTS TO PROFESSORS.

<i>Humanity,</i> - - - -	-	{ John Brown, M.A. Daniel Rankin, B.A.
<i>Greek,</i> - - - -	-	{ Alexander Murdoch. Archibald McLaren, M.A.
<i>Natural Philosophy,</i> - - - -	-	Magnus Maclean, M.A.
Arnott and Thomson Demon- strator in <i>Experimental</i> <i>Physics,</i> - - - -	-	{ James Thomson Bottomley, M.A., F.R.S.
<i>Mathematics,</i> - - - -	-	George A. Gibson, M.A.
Young Assistant in <i>Civil En-</i> <i>gineering and Mechanics,</i> -	-	{ Alexander B. Dobbie, B.Sc.

<i>Practice of Medicine,</i>	-	-	George S. Middleton, M.A., M.D.
<i>Anatomy,</i>	-	-	{ John Yule MacKay, M.D.
			{ R. Bruce Young, M.A., M.B., C.M.
			{ Andrew M. Ramsay, M.B., C.M.
Baxter Demonstrator in <i>Geology,</i>			Benjamin G. Cormack, M.A., B.Sc.
<i>Surgery,</i>	-	-	George T. Beatson, M.D.
<i>Midwifery,</i>	-	-	Murdoch Cameron, M.D.
<i>Chemistry,</i>	-	-	{ Geo. G. Henderson, D.Sc.
			{ James Stanley Muir, B.Sc.
<i>Botany,</i>	-	-	Benjamin G. Cormack, M.A., B.Sc.
<i>Materia Medica,</i>	-	-	William Maclellan, M.B., C.M.
<i>Institutes of Medicine,</i>	-	-	{ J. M'Gregor-Robertson, M.A., M.B.,
			{ C.M.
Muirhead Demonstrator of <i>Physiology,</i>	-	-	{ William Snodgrass, M.A., M.B., C.M.
<i>Forensic Medicine,</i>	-	-	Donald Munro, M.D.
<i>Clinical Surgery,</i>	-	-	J. C. Renton, M.D.
<i>Clinical Medicine,</i>	-	-	{ William G. Dun, M.D.
			{ John F. Fergus, M.A., M.B., C.M.

EXAMINERS FOR DEGREES.

In Divinity.—The Professors in the Faculty of Divinity.

In Law.—The Professors in the Faculty of Law, assisted by
 William Galbraith Miller, LL.B., Advocate.
 Robert T. Younger, LL.B., Advocate.
 W. Craig Robertson, LL.B.

In Medicine.—The Professors in the Faculty of Medicine,
 assisted by

Joseph Coats, M.D.	R. F. C. Leith, M.A., B.Sc., M.B.
David Newman, M.D.	Alexander Hill, M.D.
A. W. Macfarlane, M.D.	Samuel Sloan, M.D.
William Whittle, M.D.	Wm. J. Fleming, M.D.
James J. Dobbie, M.A., D.Sc.	Wm. D. Halliburton, M.D.
George Murray.	George A. Gibson, M.D.

In Arts.—The Professors of Humanity, Greek, Logic, Moral Philosophy, Natural Philosophy, Mathematics, and English Literature, assisted by

William Y. King, M.A.,	Examiuer in Classics,	- - -	1887*
Robert M. Wenley, M.A.,	„	Mental Philosophy,	- 1888
James Buchauan, M.A.,	„	Mathematics,	- - 1889

In Science.—Professor Sir Wm. Thomson, D.C.L., Professor Grant, LL.D., Professor Young, M.D., Professor Ferguson, LL.D., Professor M'Kendrick, M.D., Professor Cleland, M.D., Professor Jack, LL.D., Professor Bower, D.Sc., Professor Jenkins, Professor Barr, D.Sc.

<i>Keeper of Hunterian Library</i>	}	Professor Young, M.D.
<i>and Museum,</i>		
<i>Under-Keeper,</i>	- - -	John Young, F.G.S.
<i>Curator of Library,</i>	- - -	Professor Dickson, D.D., LL.D.
<i>Librarian,</i>	- - -	James Lymburn.
<i>Sub-Librarian,</i>	- - -	James L. Galbraith.
<i>Secretary to the University</i>	}	Alan E. Clapperton, B.L., 91 West Regent Street.
<i>Court,</i>		
<i>Clerk of Senate,</i>	- - -	Professor Stewart, D.D., 18 Annfield Terrace, Partickhill.
<i>Assistant-Clerks,</i>	- - -	W. Innes Addison, Matriculation Office.
	- - -	James Coutts, M.A., Registration Office.
<i>Registrar of the General Coun-</i>	}	James Coutts, M.A.
<i>cil,</i>		
<i>Clerk of the General Council,</i>	-	Archibald Craig, LL.B., 156 St. Vin- cent Street.
<i>Factors,</i>	- - -	Hill & Hoggan, 194 Ingram Street.
<i>Law-Agents,</i>	- - -	Mitchells, Johnston, & Co., 160 West George Street.
<i>Publishers and Booksellers to</i>	}	James MacLehose & Sons, 61 St. Vincent Street.
<i>the University,</i>		

* Mr. King's term of office expires in September.

<i>Printer to the University,</i>	-	}	Robert MacLehose, 153 West Nile Street.
<i>Robe Makers to the University,</i>	- - - -	}	James Thomson & Son, 84 St. Vincent Street.
<i>Head Servants,</i>	- - -	{	Bedellus and Janitor, - }
			Lauchlan M'Pherson. Master of Works, - David Stewart

Students' Representative Council.

President—Robert Bell.

Vice-Presidents—John Nisbet, M.A., ; Archibald Shaw.

Secretary—William Newlands, 15 Hyndland Street, Partick.

Assistant Secretaries—R. K. Rutheiford, M.A. ; D. C. S. Blacklock, M.A. ; W. J. M'Kendrick, and R. S. Horne.

Treasurer—J. G. M'Naught, M.A., 31 Moray Place, Strathbungo.

Executive Committee. *Divinity*—Daniel Kirkwood, B.D. ; *Law*—Augus Fraser-Macrae ; *Medicine*—Donald Murray, J. Paterson, M.A. ; *Arts*—J. H. Maclean, Alexander Ralston, D. J. Allison.

I.—THE UNIVERSITY.

The University of Glasgow is a corporate body, which has always included a Chancellor, Rector, Dean of Faculties, Principal, Professors, and Students. It was originally founded, like most other ancient establishments of the same nature, by the authority of the See of Rome. Pope Nicholas V, by a bull, dated the seventh of January, 1450-1, erects and establishes in Glasgow a "*Studium Generale . . . tam in theologia ac jure canonico et civili, quam in artibus, et quavis alia licita facultate.*" He then declares that this University shall have the same power of creating Masters and Doctors as any other "*studium generale*" in Christendom, and appoints the Bishop of Glasgow and his successors, Chancellors and Rectors by his authority. In the same year a body of statutes was prepared, and the University established by the exertions of the Bishop and his Chapter. It consisted, at this time, of the Chancellor and Rector, of various Masters and Doctors in the Faculties of Theology, Canon Law, and the Arts; and, lastly, of the incorporated students in these Faculties, who might be promoted to the same degrees in each, after following out the course of study prescribed in the statutes.

The University, at this time, had received no endowments, and was possessed of no property, except a University purse, into which were put some small perquisites on conferring degrees, and the patronage of two or three small chaplainries. It continued, however, to discharge its important functions with great zeal and activity, and attracted a greater number of members than could well have been expected in that rude period of society. The University Records contain little information as to lectures delivered in the Higher Faculties, or the number of the students who attended them. But we learn that within three or four years after the establishment of the University, so many young men were matriculated in the Faculty of Arts, that it was thought expedient to provide a house in which they

might reside, and to secure a regular set of teachers for their instruction.

The house provided for the accommodation of the students in Arts was known by the name of Pædagogium, or the College of Arts. It is said to have been situated in the Rottenrow ; but in the year 1460, James, Lord Hamilton, bequeathed to Mr. Duncan Bunch, principal Regent of the College of Arts, and his successors, Regents, for the use of the said College, a tenement in the High Street, with four acres of land adjoining. In buildings situated on this ground the classes of the University continued to meet for upwards of four hundred years.

The Reformation produced at first great disorder in the University, its members being clergymen of the Catholic persuasion, and its chief support being derived from the Church. In 1577, James VI prescribed very particular rules with regard to the College and the form of its government, and made a considerable addition to its funds. The charter by which the king made these regulations, and gave that property, is known by the name of *Nova Erectio*.

By this charter, provision was made for the support of a Principal, who was to teach Theology and the Holy Scriptures, and was also Professor of Hebrew and Syriac, and three Regents, of whom one was to teach Greek and Rhetoric, another Dialectics, Morals, and Politics, with the Elements of Arithmetic and Geometry, and the third, who was also Sub-Principal, was to teach all the branches of Physiology and Geography, Chronology and Astrology. The Regents were to keep each by his own Profession, so that the student had a new Regent every year.*

From this small beginning, the University continued to prosper till the era of the Restoration, having at that time, besides the Principal, two Professors of Theology, one of Medicine, four Regents or Professors of Philosophy, and one of Humanity, a Librarian, with a tolerable Library, an increased number of Bursars and of other students of all ranks. At the Restoration, however, being deprived of a great part of its revenues in consequence of the re-establishment of Episcopacy, three of the Professorships fell into abeyance, and the College was again reduced to a Principal,

* This system was altered in 1642, in accordance with the practice of the other Universities ; but returned to after the Revolution. The four classes necessary to Graduation in Arts were called—the first, Bajan ; the second, Semi ; the third, Baccatur ; the fourth, Magistrand.

a Professor of Theology, and four Regents. This state of matters continued till the Revolution, when the University again began to prosper after a long period of depression.* In the first twenty years of last century, six Professorships were either originally founded or revived—viz., those of Humanity (1706), Oriental Languages (1709), Civil Law (1712), Medicine (1712), Church History (1716), and Anatomy (1718); and to these a Professorship of Astronomy was added in 1760. The remaining fifteen Professorships were founded during the present century—viz., Natural History (1807), Surgery (1815), Midwifery (1815), Chemistry (1817), Botany (1818), *Materia Medica* (1831), Institutes of Medicine (1839), Forensic Medicine (1839), Civil Engineering (1840), Conveyancing (1861), English Language and Literature (1861), Divinity and Biblical Criticism (1861), Clinical Surgery (1874), Clinical Medicine (1874), Naval Architecture (1883).

UNIVERSITY BUILDINGS.

The changes in the City of Glasgow having so entirely altered the character of the district in which the University Buildings were planted four hundred years ago, as to render the locality altogether unsuitable for an Academic Institution; and the buildings themselves having become, by their limited extent and defective construction, inadequate for the modern requirements of a great educational establishment; measures were adopted for the removal of the University to more extended and commodious buildings, and for this purpose a large extent of ground was secured in the lands of Gilmorehill, in the western part of the City.

In 1846, a Bill for the sale of the College grounds and buildings to the Monklands Junction Railway Company, and the transference of the University to a new site on Woodlands, was passed by both Houses of Parliament, and received the Royal assent. But that measure failed by the inability of the Railway Company to implement their engagements; and the Senate of the University found no favourable opportunity for the renewal of the scheme, till the year 1863, when a proposal for the purchase of the College lands and buildings was made by the City of Glasgow Union Railway Company, and a sale was accordingly effected to that Company, under their Act of Parliament, in 1864, at the price of £100,000.

* See Dr. Thomas Reid's Account of the University of Glasgow.

The funds at the disposal of the University to carry out the scheme of removal consisted of—(1.) The produce of the sale of the old College and grounds, £100,000,—(2.) A sum of £17,500, consisting of the principal sum of £10,000, obtained by the University as compensation from the Monklands Junction Company, for non-fulfilment of their agreement, with interest since the time of payment, and—(3.) A sum of £21,400, promised by Her Majesty's Government in aid of the scheme of removal, conditionally on a further sum of £24,000 being raised by public subscription, for the erection of a sick hospital in connection with the new University Buildings.

With these funds at their disposal, buildings might have been erected sufficient for the transaction of the ordinary business of instruction in the same manner as heretofore, and for the accommodation of the Library and Museum, but they must have been of the plainest design, and on a scale quite inadequate to provide for the future extension of the University.

In these circumstances, the Senate resolved to make an earnest appeal for aid to the Government and to the public. This appeal was responded to in the most generous and gratifying manner. In a short time a sum of nearly £100,000 was subscribed, chiefly in the City of Glasgow; and the Government, appreciating the importance of the work, and the public interest it had excited, announced their intention to ask Parliament for the sum of £120,000, in six annual instalments, on condition of a like amount being raised by subscription and expended on the buildings. This sum was paid out of the National Treasury, and there has been received from the public subscription for the University Buildings and the Western Infirmary and from legacies the large amount of £256,429, including £45,000 from the Marquis of Bute for the erection of the Bute Hall, £5,000 from Dr. J. M'Intyre for the University Union Buildings, £4,274 from the late Sir William Pearce, Bart., for the removal of the old College front and the re-erection of the materials at the north-east gateway, £5,000 bequeathed by Mr. Andrew Cunningham, and £1,000 (less legacy duty) bequeathed by Mr. James Marshall for the completion of the tower, and special subscriptions amounting to £2,600 for building and furnishing the Gymnasium. A sum of £30,000 was allocated to the Western Infirmary. New buildings, designed by the late Sir G. Gilbert Scott, were erected on the grounds of Gilmorehill; and in these buildings

the classes of the University met for the first time in session 1870-71.

GOVERNMENT OF THE UNIVERSITY.

Previous to the Universities Act of 1858, the whole business of the University was transacted in three distinct courts—namely, the Senate, the Faculty, and the Comitia.

The *Senate* consisted of the Rector, the Dean, the Principal, and all the Professors of the University. Meetings of the Senate were held for conferring degrees, and for the management of the libraries and other matters belonging to the University.

The *Faculty*, or College Meeting, consisted of the Principal, who presided, and the Professors of Divinity, Church History, Oriental Languages, Natural Philosophy, Moral Philosophy, Mathematics, Logic, Greek, Humanity, Civil Law, Medicine, Anatomy, and Practical Astronomy. The Members of Faculty had the administration of the whole revenue and property of the College, along with the right of exercising the patronage of eight professorships vested in the College. They also presented a Minister to the Parish of Govan, and had the gift of various bursaries.

The Constituent Members of the *Comitia* were the Rector, the Dean, the Principal, the Professors, and the Matriculated Students of the University. The Rector or Vice-Rector presided in this court, and also in the Senate. Meetings of the Comitia were held for the election and admission of the Rector, for hearing the inaugural discourses of the Principals and Professors previously to their admission to their respective offices, and for promulgating the laws of the University.

Besides these a court, called the *Jurisdictio Ordinaria*, consisting of the Principal, the four Regents (viz., the Professors of Greek, Logic, Ethics, and Physics), and the Professor of Humanity, with the gowned students, met occasionally, for the exercise of discipline over the junior students.

By the Scottish Universities Act, 21 and 22 Vict., chap. 83. important changes were made in the constitution and government of the University. The distinction between the Faculty and the Senate was abolished; two new bodies, called the University Court, and University Council, were instituted; and Commissioners were appointed, armed with extensive powers of revision and regulation, who issued ordinances, sanctioned by Her Majesty, in accordance with which the affairs of the University are now administered.

Further changes were made by the Universities (Scotland) Act, 1889. A Committee of Her Majesty's Privy Council has been constituted, styled the Scottish Universities Committee of the Privy Council. An Executive Commission has been created and is now sitting, with power to repeal or modify any ordinance made under the Act of 1858. The Commissioners are empowered to lay down regulations for the constitution of a Students' Representative Council, and to frame regulations under which that Council shall be entitled to make representations to the University Court.

CHANCELLOR.

The Chancellor is the head of the University, and, by himself or his deputy, has the privilege of conferring Academical Degrees upon persons found qualified by the Senate. All changes in the internal arrangements of the University must have the sanction of the Chancellor before being carried into effect. He is elected by the General Council, of which he is president. His office is held during life. He is empowered to appoint a Vice-Chancellor to discharge his office in his absence, so far as regards conferring Degrees, but in no other respect. The office of Vice-Chancellor has usually been, and is now, held by the Principal.

Chancellors from the year 1642.

- 1642. James Hamilton, Marquis of Hamilton.
- 1660. William Cunningham, Earl of Glencairn.
- 1661. Andrew Fairfowl, Archbishop of Glasgow.
- 1664. Alexander Burnett, " "
- 1670. Robert Leighton, " "
- 1674. Alexander Burnett, " "
- 1679. Arthur Ross, " "
- 1684. Alexander Cairncross, " "
- 1687. John Paterson, " "
- 1691. John Carmichael, Earl of Hyndford.
- 1715. James Graham, Duke of Montrose.
- 1743. William Graham, " "
- 1781. James Graham, " "
- 1837. James Graham, " "
- 1875. Sir William Stirling-Maxwell, Bart., M.P.
- 1878. Walter Francis, Duke of Buccleuch and Queensberry, K.G.
- 1884. JOHN HAMILTON DALRYMPLE, EARL OF STAIR, K.T.

RECTOR.

The Rector is elected by the matriculated students of the University, divided into four nations.* In the case of an equality of nations the Chancellor has, in accordance with the Act of 1858, the casting vote, but the Act of 1889 gives the Commissioners power to ordain that the election shall be determined by the majority of votes of all the students voting whenever the votes of the nations shall be equally divided. The election takes place upon the 15th November (the 16th, if the 15th falls on Sunday); the term of office is three years. The Rector is the official President of the University Court.

Rectors from 1773.

- 1773. Charles Cathcart, Lord Cathcart.
- 1775. Lord Chief Baron Montgomerie.
- 1777. Andrew Stewart, Esq., of Torrance.
- 1779. James Maitland, seventh Earl of Lauderdale.
- 1781. Right Hon. Henry Dundas.
- 1783. Right Hon. Edmund Burke.
- 1785. Robert Graham, Esq. of Gartmore.
- 1787. Adam Smith, LL.D.
- 1789. Walter Campbell, Esq. of Shawfield.
- 1791. Thomas Kennedy, Esq. of Dunure.
- 1793. William Mure, Esq. of Caldwell.
- 1795. William M'Dowall, Esq. of Garthland.
- 1797. George Oswald, Esq. of Auchincruive.
- 1799. Right Hon. Sir Ilay Campbell, Lord President.
- 1801. William Craig, a Lord of Session.
- 1803. Lord Chief Baron Dundas.
- 1805. Henry Glassford, Esq. of Dugalston.
- 1807. Archibald Colquhoun, Esq. of Killermont.
- 1809. Archibald Campbell, Esq. of Blythswood.
- 1811. Lord Archibald Hamilton.
- 1813. Thomas Graham, Lord Lynedoch.
- 1815. David Boyle, Lord Justice Clerk.
- 1817. George Boyle, Earl of Glasgow.

* The nations are constituted as follows :—

1. The Natio Glottiana consists of all matriculated students born within the County of Lanark.
2. The Natio Transforthana consists of all matriculated students born within any of the Counties of Orkney and Shetland, Caithness, Sutherland, Ross, Inverness, Cromarty, Nairn, Moray, Banff, Aberdeen, Perth, Forfar, Kincardine, Clackmannan, Fife, Kinross, Argyle, Stirling, and Dumbarton.
3. The Natio Rothseiana consists of all matriculated students born within any of the Counties of Bute, Renfrew, and Ayr.
4. The Natio Loudoniana consists of all matriculated students not included in any of the other nations.

- 1819. Kirkman Finlay, Esq., M.P.
- 1820. Francis Jeffrey, Esq., Advocate.
- 1822. Sir James Mackintosh, M.P.
- 1824. Henry Brougham, Esq., M.P.
- 1826. Thomas Campbell, LL.D.
- 1829. Henry Petty, Marquis of Lansdowne.
- 1831. Henry Cockburn, Esq., Solicitor-General
- 1834. Lord Stanley, M.P.
- 1836. Sir Robert Peel, Bart., M.P.
- 1838. Sir J. G. R. Graham, Bart., M.P.
- 1840. John Campbell, Marquis of Breadalbane.
- 1842. Right Hon. Fox Maule, M.P.
- 1844. Andrew Rutherford, Esq.
- 1846. Lord John Russell.
- 1847. Colonel Mure of Caldwell.
- 1848. Thomas Babington Macaulay, Esq.
- 1850. Archibald Alison, Esq., Sheriff of Lanarkshire
- 1852. Earl of Eglinton.
- 1854. Duke of Argyle.
- 1856. Sir Edward Bulwer Lytton.
- 1859. Earl of Elgin.
- 1862. Viscount Palmerston.
- 1865. John Inglis, Lord Justice Clerk.
- 1868. Lord Stanley (now Earl of Derby).
- 1871. Right Hon. Benjamin Disraeli, M.P. (Earl of Beaconsfield).
- 1877. Right Hon. William Ewart Gladstone, M.P.
- 1880. Right Hon. John Bright, M.P.
- 1883. Right Hon. Henry Fawcett, M.P.
- 1884. Edmund Law Lushington, LL.D., D.C.L.
- 1887. RIGHT HON. EARL OF LYTTON, G.C.B., G.C.S.I., C.I.E.

DEAN OF FACULTIES.

From the beginning there has been in the University an officer of dignity with the title Dean of Faculty or Dean of Faculties. The duties of the office, as originally constituted, were to exercise a superintendence over the studies, and, in conjunction with the Masters, to judge of the qualifications of applicants for degrees. From the year 1772 it was the duty of the Dean, in concert with the Rector and the Minister of Glasgow, to examine the accounts of the administration of the Revenue, and to give advice to the Principal and Professors, when it was necessary for them to institute a judicial inquiry

into the conduct of any of their number. By the Universities Act of 1858 the Dean of Faculties was a member of the University Court, but in the enumeration of the constituent members of the new University Court in the Act of 1889 the name does not occur. The election is made annually by the Senate at the close of the winter session.

Deans from the year 1800.

- | | |
|--|--|
| 1800. James Couper, D.D. | 1841. Lord Dunfermline. |
| 1802. Archd. Campbell, Esq., of Succoth. | 1843. Sir T. Makdougall Brisbane, Bart. |
| 1804. Gavin Gibb, D.D. | 1845. A. Maconochie, Lord Meadowbank. |
| 1806. Duncan Macfarlan, D.D. | 1847. Earl of Eglinton. |
| 1808. Gavin Gibb, D.D. | 1849. Colonel Mure of Caldwell, M.P. |
| 1810. Duncan Macfarlan, D.D. | 1851. W. Lockhart, Esq., M.P. |
| 1812. Gavin Gibb, D.D. | 1853. Colonel Mure. |
| 1814. Stevenson Macgill, D.D. | 1854. W. Lockhart, Esq. |
| 1815. Archibald Campbell, Esq., M.P. | 1857. W. Stirling, Esq., of Keir, M.P. |
| 1817. Sir John Connel. | 1860. J. Moncreiff, Lord Advocate. |
| 1819. Archibald Campbell, Esq., M.P. | 1863. Sir A. I. Campbell of Succoth. |
| 1821. Sir John Connel. | 1865. Henry Glassford Bell, Esq. |
| 1823. Archibald Campbell, Esq., M.P. | 1868. Sir James Fergusson, Bart. |
| 1825. Sir John Connel. | 1869. Sir Thos. E. Colebrooke, Bart., M.P. |
| 1827. Archibald Campbell, Esq., M.P. | 1872. Archd. Orr Ewing, Esq., M.P. |
| 1829. Sir John Connel. | 1876. Alexander B. McGrigor, LL.D. |
| 1831. Archibald Campbell, Esq. | 1879. James King, Esq. |
| 1833. Sir A. Campbell, Bart. | 1882. R. W. Cochran-Patrick, LL.D., M.P. |
| 1835. Archibald Campbell, Esq. | 1885. Alexander Crum, Esq., M.P. |
| 1837. Sir A. Campbell, Bart. | 1888. ROBERT BERRY, LL.D., Sheriff of |
| 1839. Kirkman Finlay, Esq. | Lanarkshire. |

PRINCIPAL.

The office of Principal or Principal Regent of the College was almost coeval with the foundation of the University, and was regulated anew by James VI., in 1577. It is in the appointment of the Crown. The Principal is President of the *Senatus Academicus*; and is also, *ex officio*, a member of the University Court.

Principals from the year 1574.

- | | |
|----------------------------|------------------------------|
| 1574. Andrew Melville. | 1684. James Fall. |
| 1580. Thomas Smeaton. | 1690. William Dunlop. |
| 1582. Patrick Sharpe. | 1701. John Stirling. |
| 1615. Robert Boyd. | 1728. Neil Campbell. |
| 1622. John Cameron, D.D. | 1761. Wm. Leechman, D.D. |
| 1626. John Strang, D.D. | 1786. Archd. Davidson, D.D. |
| 1650. Robert Ramsay. | 1803. William Taylor, D.D. |
| 1653. Patrick Gillespie. | 1823. Duncan Macfarlan, D.D. |
| 1661. Robert Baillie, D.D. | 1858. Thomas Barclay, D.D. |
| 1662. Edward Wright. | 1873. JOHN CAIRD, D.D. |

UNIVERSITY COURT.

The University Court consists of (a) the Rector, (b) the Principal, (c) the Lord Provost of Glasgow for the time being, (d) an Assessor nominated by the Chancellor, (e) an Assessor nominated by the Rector, (f) an Assessor nominated by the Lord Provost, Magistrates, and Town Council of Glasgow, (g) four Assessors elected by the General Council, (h) four Assessors elected by the Senatus Academicus.* There is a further provision in the Act of 1889 for the representation of affiliated Colleges.

The Rector's Assessor continues in office three years, and the other Assessors four years.

The University Court is a body corporate, in which is vested all the property belonging to the University. By the Act of 1889 it is enacted that the University Court, in addition to the powers conferred upon it by the Act of 1858, shall, subject to any ordinances made by the Commissioners, have power—

1. To administer the whole revenue and property of the University, including share of annual Government Grant, and bursary and other mortifications.

2. To review any decision of the Senate, appealed against by a member of Senate or other member of the University interested, and to receive representations and reports from the Senate and the General Council.

3. To review, on representation by any member of the

** Assessors since the University Court was constituted.*

CHANCELLOR.

- 1859. John Robertson, D.D., Glasgow.
- 1865. A. Sym, D.D., New Kilpatrick.
- 1871. James Pearson, D.D., Strathblane.
- 1874. Robert Jamieson, D.D., Glasgow.
- 1878. J. A. Campbell, LL.D., Stracathro.
- 1887. SIR JAMES KING, LL.D.

LORD PROVOST, MAGISTRATES, AND
TOWN COUNCIL OF GLASGOW.

- 1889. JAMES COLQUHOUN, Esq.

RECTOR.

- 1860. Thomas Buchanan, Esq.
- 1863. Walter Buchanan, Esq., M.P.
- 1866. Archibald Orr Ewing, Esq.
- 1869. James A. Campbell, LL.D.
- 1878. Alexander Crum, Esq.
- 1880. Charles Cameron, M.D., LL.D.,
M.P.
- 1884. A. B. McGrigor, LL.D.
- 1887. JAMES GRAHAME, Esq.

GENERAL COUNCIL.

- 1859. Andrew Bannatyne, LL.D.
- 1864. Lord Kinloch.
- 1867. Anderson Kirkwood, LL.D.
- 1887. R. W. COCHRAN-PATRICK, LL.D.
- 1889. HECTOR C. CAMERON, M.D.
- 1889. SIR JOHN NEILSON CUTHBERTSON.
- 1889. DAVID HANNAY, Esq.

SENATUS ACADEMICUS.

- 15th Nov., 1859. Prof. W. Ramsay, M.A.
- 11th Dec., 1863. Prof. R. Buchanan, LL.D.
- 12th Dec., 1867. Prof. Allen Thomson, M.D.
- 11th Jan., 1872. Prof. Sir W. Thomson.
- 13th Jan., 1876. Prof. Cowan, M.D.
- 29th Jan., 1880. Prof. Berry, M.A., LL.D.
- 31st Jan., 1884. Prof. Dickson, D.D., LL.D.
- 9th Feb., 1888. PROF. RAMSAY, LL.D.
- 28th Nov., 1889. SHERIFF BERRY, LL.D.
- 28th Nov., 1889. PROF. LEISHMAN, M.D.
- 28th Nov., 1889. PROF. STEWART, D.D.

University Court or by any member of Senate, any decision of the Senate in the exercise of its power of regulating and superintending the teaching and discipline of the University; but decisions in matters of discipline can be reviewed only on appeal by a member of Senate or by a member of the University directly affected.

4. To appoint professors to chairs in University patronage; to appoint examiners and lecturers; and to recognise for graduation purposes the teaching of any college or individual teacher, under any regulations laid down by the Commissioners, which regulations, after the expiration of the powers of the Commissioners, may from time to time be modified or altered by the Universities Committee.

5. To define on application by any member of the Senate the nature and limits of a professor's duties under his commission, subject to appeal to the Universities Committee.

6. To take proceedings against a principal, professor, lecturer, assistant, examiner, or other University teacher.

7. To appoint from persons not being members of Senate one third of the members of any standing committee or committees charged, by ordinance of the Commissioners, with superintendence of University libraries or museums, and to review any decision of the Senate regarding the recommendations of such committee or committees.

8. To appoint committees of its own number, consisting of not less than five members, to report on any business entrusted to them or to carry out special instructions.

9. To elect the representative of the University on the General Medical Council, under the Medical Act, 1886.

10. After the expiration of the powers of the Commission to found new professorships with the approval of the Universities Committee. After such expiration no new professorship shall be founded otherwise.

The Court is intrusted with the patronage of several of the Professorships, appoints the Assistant Examiners for Degrees, and is a court of final appeal in any dispute which may arise in making up the Register of the General Council. Seven Members of the Court constitute a quorum. The Rector is President—in his absence, the Principal.

An abstract of the minutes of the meetings of the University Court during 1889-90 will be found in the Appendix.

SENATUS ACADEMICUS.

The Senatus Academicus consists of the Principal and the whole of the Professors, and is entrusted with the ordinary superintendence and regulation of the teaching and discipline of the University. It appoints two-thirds of the members of any standing committee or committees charged by ordinance of the Commissioners with the immediate superintendence of University libraries or museums. It receives in the first instance all reports by such committee or committees, and, subject to the review of the University Court, it may confirm, modify, or reject the recommendations in such reports. The Principal, as President, has a deliberative and a casting vote. One-third of the Senate constitute a quorum.

GENERAL COUNCIL.

The General Council as constituted by the Scottish Universities Act, 1858 (21 and 22 Vict., chap. 83), by the Representation of the People (Scotland) Act, 1868 (31 and 32 Vict., chap. 84), and by the Universities Elections Amendment (Scotland) Act, 1881 (44 and 45 Vict., chap. 40), consists of the following *ex officio* Members, viz., the Chancellor, the Members of the University Court from and after their first election, and the Professors, and also of the following persons after registration, viz., all Masters of Arts of the University, and all persons on whom the University has, after Examination, conferred the Degree of Doctor of Medicine, or Doctor of Science, or Bachelor of Divinity, or Bachelor of Laws, or Bachelor of Medicine, or Bachelor of Science, or any other Degree instituted since 13th July, 1868; and also all persons who, previous to the 2nd August, 1861, had, as matriculated students, given regular attendance on the course of study in this University for four complete sessions, or such regular attendance for three complete sessions in this University, and regular attendance for one such complete session in any other Scottish University, the attendance for at least two of such sessions having been on the course of study in the Faculty of Arts.

Members of the Council must have their names enrolled in a book kept for the purpose by the Registrar. The Register of the Council is made up annually on the first day of December, for the year following, and includes the names of all members

entered on the Registration Book on or before the 30th day of November in each year. The Registration Fee, which is a payment for life, is 20s.

By section 16 of the Act 44 and 45 Vict., chap. 40, it is enacted that no person shall be allowed, after examination, to graduate at any of the Universities of Scotland until he shall have paid the Registration Fee; and it is further enacted that every person who has hitherto been, or who shall in the future become, *ex officio*, a member of the General Council of any of the Universities shall, on payment of the Registration Fee, be put and continued on the Register of Members of General Council of such University during his life, and shall be entitled to all the privileges of a Member of Council. The Act also provides that no person, subject to any legal incapacity, shall be entitled to vote at any parliamentary election, or exercise any other privilege as a member of the General Council.

The corrupt payment of any Registration Fee is punishable as bribery.

The Council meets twice every year—viz., on the Wednesday before the opening (29th October, 1890), and the Wednesday before the close of the Winter Session (22nd April, 1891). In addition to these statutory meetings, the Council may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint committees to investigate into and report upon any matter remitted to them, or to carry out instructions given to them by the Council. The quorum of the General Council has been fixed by the Universities Commissioners at fifty, being ten for every thousand members, but this provision does not apply to the statutory half-yearly meetings. It is competent to the Council to take into consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time to the University Court, who shall return to the Council their deliverances thereon. The annual reports as to the statistics of attendance and as to the finances of the University, made by the University Court to the Secretary for Scotland, are to be laid by him before the General Council. To it are also to be communicated all new ordinances, or changes of existing ordinances, which may be proposed by the University Court.

The Chancellor and four of the Assessors in the University Court are elected by the Council. The manner in which these officers are elected is regulated by Ordinance of the Universities Commissioners. The President of the Council is the Chancellor; whom failing, the Rector; whom failing, the Principal; whom failing, the Senior Professor present; but in the election of Assessors the members of Senate may not take part.

The General Councils of the Universities of Glasgow and Aberdeen jointly return a representative to Parliament.

Number of Members of the General Council, 4855. For names of Members, see Appendix.

Members of Parliament for the Universities of Glasgow and Aberdeen.

- 1868. Right Hon. James Moncrieff, LL.D., Lord Advocate.
 - 1869. Right Hon. Edward S. Gordon, LL.D., Dean of the Faculty of Advocates.
 - 1876. Right Hon. William Watson, LL.D., Lord Advocate.
 - 1880. JAMES ALEXANDER CAMPBELL, LL.D.
-

STUDENTS' REPRESENTATIVE COUNCIL.

The Students' Representative Council consists of representatives from the different years of all the different Faculties in the University, and its aims are (1) to represent the Students in matters affecting their interests; (2) to afford a recognized means of communication between the Students and the University authorities; (3) to promote social and academic unity among the students. A Union Committee appointed by the Council completed in session 1889-90 the arrangements for opening the "Glasgow University Union." The Council has various Sub-Committees—an Inter-Universities Committee, a Magazine Committee, which conducts during the winter session the "Glasgow University Magazine" (published weekly), an Amusements Committee, and a Song Book Committee.

Presidents of the Students' Representative Council.

- 1885-86. R. M. Wenley, M.A.
- 1886-87. Gavin Lambie, M.A.
- 1887-88. C. E. Robertson, M.B., C.M.
- 1888-89. John H. Harley, M.A.
- 1889-90. ROBERT BELL.

STUDENTS.

Number of Students in the several Faculties, Session 1889-90 :—

In Arts (including Summer Matriculation of 1889, 2),	-	1046
Theology,	-	92
Medicine (including Summer Matriculation of 1889, 116),	-	800
Law (including Summer Matriculation of 1889, 3),	-	188
Arts and Medicine,	-	36
Arts and Law,	-	8
Arts and Theology,	-	9
Medicine and Theology,	-	1

2180

By ordinances No. 3 and No. 22 of the University Commissioners, every student is required at the beginning of each session, to matriculate by enrolling his name in the University Album, before joining any class.* The Office of the Clerk of Senate will be open for the purpose of Matriculation on and after Monday, 13th October. The Matriculation Fee is £1 for the Academical Year; for the Summer Session, 10s.

Students are entitled, after matriculation, to the privilege of admission to the University Library, and, under certain conditions, to the Hunterian Museum; they are also entitled to vote for the Lord Rector. They are classified as students in Arts, Theology, Law, and Medicine, according to the nature of their studies; and they are likewise, for academical purposes, divided into Togati and Non-Togati—the students of the Humanity, Greek, Logic, Ethics, and Natural Philosophy classes being Togati or gown students, from being required to wear the ancient academical robe—a scarlet cloak.

Under the Non-Togati, or ungowned students, are comprehended all those who, having finished their course of instruction in Arts, are prosecuting their studies in the other Faculties, with a more immediate view to their intended professions; and it comprises also other persons resident in the city or its vicinity, who, though engaged in other avocations, are disposed to cultivate literary pursuits, or to extend their acquaintance with some

* The following addition to ordinance No. 22, § xxviii, was approved by Her Majesty in Council, on 21st Feb., 1888: "Provided always that it shall be lawful for the Senatus Academicus, with the approval of the University Court, to sanction the admission of persons who are not matriculated students of the University to any course of instruction in the University not included in the course of study for Graduation in any Faculty, on payment to the General University Fund of an entrance fee of five shillings in addition to the authorized class fee; but such payment shall not entitle such persons to any other University privilege."

favourite branches of learning or science, by attending the lectures given at the University.

A distinction is also made between Public and Private students. The former are required to undergo examinations, and to read or perform exercises on the subjects treated of in the lectures,—and they only are allowed to reckon their sessions of study as a qualification for proceeding to degrees in the several Faculties.

Medical students have access, for the usual attendance in the wards and on the Clinical Lectures, to the Royal Infirmary situated in the Eastern part of the city, and to the Western Infirmary in the immediate vicinity of the University.

EXAMINERS FOR DEGREES.

By ordinance No. 14, § ix, of the Universities Commissioners of date 26th Jan., 1861, provision was made for the appointment by the University Court of three persons, not being Professors or Assistants to Professors, to be Examiners, along with the Professors, for the Degree of M.A., one in the Department of Classical Literature, another in that of Mental Philosophy, and the third in that of Mathematical Science, each of whom should receive annually the sum of £80, to be voted by Parliament. By ordinance No. 15, § xvi, of date 16th March, 1861, provision was made for the annual appointment by the University Court of three Assistant Examiners for Degrees in Medicine on a similar footing. But in accordance with an amendment on this ordinance made in 1875, the University Court now appoint twelve Examiners. And by ordinance No. 75, § vi, three additional Examiners are appointed for the examination of candidates for the Degrees of B.L. and LL.B.

ASSISTANTS TO PROFESSORS.

By ordinance No. 22 of the Universities Commissioners, of date 25th November, 1861, it was provided that an Assistant should be attached to each of the Professorships of Humanity, Greek, Mathematics, and Natural Philosophy, and two (a Teaching Assistant and a Laboratory Assistant) to the Professorship of Chemistry, each of whom should receive a salary of £100, to be annually voted by Parliament. By the same ordinance pro-

vision was made for the appointment of an Assistant to the Professor of Anatomy, who should receive a salary from the General University Fund, and of a Joint-Assistant to the Professors of Materia Medica and Forensic Medicine, who should receive a salary of £50 by annual Parliamentary vote, instead of whom (by an alteration of the ordinance sanctioned by the Queen in Council) two assistants are now appointed, one to the Professor of Materia Medica and the other to the Professor of Forensic Medicine, each of whom receives a salary of £25. These Assistants are all appointed by the Professors, subject to the approval and control of the University Court. Besides the Assistants for whom provision is made by ordinance, there are attached to several of the classes other Assistants, appointed and paid by the Professors.

The Arnott and Thomson Demonstratorship, founded in 1875, is attached to the Chair of Natural Philosophy; the Muirhead Demonstratorship, founded in 1876, to the Chair of Institutes of Medicine; and the Baxter Demonstratorship in Geology, founded in 1889, to the Chair of Natural History.

There is also an Assistantship to the Professor of Engineering, which was founded in 1876 by the bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow, with a salary of £140 or thereby, and designated in memory of her father, the Young Assistantship. The appointment is made by the University Court in conjunction with the Professor of Engineering.

UNIVERSITY CHAPEL.

The University Chapel is under the management of a Committee of Senate, of which the Principal is Convener.

Public Worship is celebrated every Sunday afternoon during the Winter Session at half past Two o'clock, in the Bute Hall. The services are conducted by graduates of this University and other clergymen of various denominations.

UNIVERSITY CHOIR.

Organist and Director, Mr. Montague Smith.

Students' Committee.

R. Morton, William R. Jack, A. N. M'Gregor, J. Coats, D. M'Donald, A. Goldie, T. Forrest, H. Kirkland, Convener.

Students willing to join the Choir and to give regular attendance at the weekly meetings for practice and at the Sunday afternoon services, are offered a course of instruction by the Organist in the rudiments, theory of music, and harmony. This Class will meet each Friday during the Winter Session at 7.15 p.m., immediately after the close of the choir practice beginning at 6.30 p.m. The Committee will be glad to furnish any other information, and to receive the names of intending members on or before 1st November, 1890.

GYMNASIUM.

This building was erected by public subscription, and fitted according to the most improved models, under the superintendence of the late Mr. Maclaren of Oxford, at a total cost of £2,600, and was opened for the first time in January, 1872.

The instructor, Mr. Benson, carries out the system of Mr. Maclaren in its entirety. Students are carefully examined and measured on joining, and the exercises graduated according to strength and proficiency. Each student joins a class which meets at the same hour three days in the week.

Gentlemen not connected with the University are admitted to the use of the Gymnasium, and special evening classes are formed for their benefit.

Fees.—1. *For all Students*: One month, 5s. ; Two months, 8s. 6d. ; Three months, 12s. ; Six months, 20s. 2. *For Non-Students*: the Quarter (*i.e.*, twice a week for three months, or three times a week for two months), 15s. ; whole season, 25s.

The Oxford Silver Medal, presented annually by the late Mr. Maclaren, for competition among the students, is continued by the Gymnasium. The Bronze Medal for competition among the non-students, is also continued. Successful competitor at the competition in March, 1890—T. R. Barnett.

Classes are also formed after Christmas to meet twice a week for instruction in Boxing and Fencing.

The Gymnasium is managed by a joint-committee of professors and students.

Hon. Treasurer, Matthew P. Fraser, LL.B., 91 West Regent Street, Glasgow.

Hon. Secretary, A. Taylor, 13 Granby Terrace, Hillhead.

EXAMINATION FOR CANDIDATES FOR THE ARMY.

This Examination, which the Secretary of State for War has accepted as equivalent to the Examination at the English and Irish Universities for similar candidates, consists of three out of the seven Examinations required for the ordinary degree of M.A., but one subject must be taken out of each of the three separate Departments of Classical Literature, Mental Philosophy and Mathematics. Candidates must not be over twenty-one years of age. Examination Fee, £2 2s. This examination is intended only for students who have actually attended classes in the University.

II.—TABLE OF UNIVERSITY FEES.

I.—MATRICULATION FEES.

At the commencement of each Academical Year, which extends from 1st November to 31st October, and includes both Winter and Summer Sessions, ... £1 0 0

At the commencement of each Summer Session (which extends from 1st May to 31st October), if the Student has not matriculated for the Academical Year then current, ... 0 10 0

II.—ENTRANCE FEES (non-curriculum classes).

On admission each Session of persons who are not matriculated Students of the University to any course of instruction in the University not included in the course of Study for Graduation in any Faculty, ... 0 5 0

III.—ENROLMENT FEES (extra-mural lectures).

At the commencement of each year of attendance on the lectures of private Teachers of Medicine, whose Lectures are recognized for Graduation in the University, ... 0 10 0

IV.—EXAMINATION FEES.

For Degree of Master of Arts (M.A.)—

On entering for Examination in Classical Department,	1	1	0
„ „ „ Philosophical „	1	1	0
„ „ „ Mathematical „	1	1	0

For Certificate of Literate in Arts (L.A.)—			
When all the subjects are taken at one Examination :			
On entering for that Examination,	£2	2	0
When the Examination is divided :			
On entering for Examination in Department first taken,	1	1	0
On entering for Examination in Department taken next,	1	1	0
For Diploma for Teachers—			
When the Diploma is delivered,	2	2	0
For Examination for Candidates for the Army—			
On entering for Examination,	2	2	0
For Degree of Bachelor of Science (B.Sc.)—			
On first entering for Preliminary Examination, ...	0	10	0
On entering for First Examination in Natural Science,	1	11	6
On entering for Second Examination, ...	1	11	6
In Engineering Science—£1 1s. each Session in which Candidate is examined, till he has paid ...	3	3	0
For Certificate in Engineering Science—			
On entering for last subject of Examination, ...	1	1	0
For Degree of Doctor of Science (D.Sc.)—			
On delivery of Diploma,	10	10	0
For Degrees of Bachelor of Medicine (M.B.), and Master in Surgery (C.M.)—			
On first entering for Examination in General Education (if Candidate is not then a Matriculated Student),	0	10	0
On entering for First Professional Examination, ...	5	5	0
„ Second „ „ „ „ „	5	5	0
„ Third „ „ „ „ „	5	5	0
„ Fourth „ „ „ „ „	5	5	0
For Degree of Doctor of Medicine (M.D.)—			
On lodging Thesis,	15	8	0
(This includes £10 3s. of Government Duty, etc.)			
For Diploma in Public Health—			
On entering for Examination,	5	5	0
For Degree of Bachelor of Laws (LL.B.)—			
The fee for this Degree is	5	5	0
Payable £1 1s. on each entry for Examination, and balance before Graduation.			
For Degree of Bachelor of Law (B.L.)—			
On first entering for Examination,	1	1	0
„ second „ „ „ „ „	1	1	0
„ third „ „ „ „ „ (or before graduation)	1	1	0
For Degree of Bachelor of Divinity (B.D.)—			
On entering for Examination in First Department, ...	1	11	6
„ „ „ Second „ „	1	11	6

For Degree of Doctor of Divinity (D.D.)—

On delivery of Diploma :

When the Graduate holds the Degrees of M.A. and B.D. of this University,	£13	14	0
When he holds the Degree of M.A. of this University,	16	17	0
In other cases,	20	0	0

V.—LIBRARY FEES.

Each Member of the General Council, each year (commencing 15th October), in which he wishes use of Library, 0 10 6

Or,

This may be compounded for by a single payment of ... 5 5 0

Every Matriculated Student enrolled in a Class, who wishes use of Library, a *deposit* of 1 0 0

Special Readers—each year in which the privilege is granted, 0 10 6

VI.—REGISTRATION FEE.

All Candidates proceeding to Graduation after Examination who are not already members of the General Council are required by the Act 44 and 45 Vict., Ch. 40, to pay the Registration Fee, with a view to their names being enrolled in the General Council. The fee is 1 0 0

III.—SEPARATE FACULTIES AND CLASSES.

WINTER SESSION 1890-91.

The Session will be opened on TUESDAY, 4th November, at Twelve o'clock.*

The University Classes will meet as follows, daily, unless otherwise specified :—

I.—ARTS.

WEDNESDAY, 5TH NOVEMBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Humanity, Junior,</i>	8 a.m.,	£3 3 0	} MR. RAMSAY.
— <i>Middle,</i>	8 a.m. and 11 a.m., . .	3 3 0	
— <i>Senior,</i>	9 a.m. and 1 p.m., . .	3 3 0†	
— <i>Private (or Upper Senior),</i>	1 p.m.,	3 3 0	
<i>Greek, Junior, Tirones,</i>	12 noon,	3 3 0	} MR. MURRAY.
— <i>Proectores,</i>	10 a.m.,	3 3 0	
— <i>Senior,</i>	8 a.m. and 2 p.m., . .	3 3 0†	
— <i>Private,</i>	2 p.m.,	1 11 6	
<i>Logic and Rhetoric,</i>	{ 9 a.m. daily and 11 a.m. Mon., Wed., and Fri.,	3 3 0	} MR. VEITCH.
— <i>Higher Course,</i>	1 p.m., Tues. and Th., . .	1 11 6	
<i>Moral Philosophy,</i>	{ 8 a.m. daily, and 11 a.m. Mon.,	3 3 0	} MR. CAIRD.
— <i>Higher Course (see p. 57),</i>	—	
<i>Political Economy,</i>	5.30 p.m., Tues., and Fri., . .	1 11 6	
<i>Natural Philosophy,</i>	{ 9 a.m. daily, and 11 a.m. Tu. and Th., . .	4 4 0‡	} SIR WM. THOMSON.
— <i>Higher Course,</i>	{ 12 noon, Mon., Wed., and Fri.,	—	
<i>Physical Laboratory,</i>	10 a.m. to 4 p.m.,	5 5 0	} DR. JACK.
<i>Mathematics, Lower Junior,</i>	9 a.m. or 10 a.m.,	3 3 0	
— <i>Upper Junior,</i>	12 noon or 9 a.m.,	3 3 0	
— <i>Senior,</i>	10 a.m.,	3 3 0	
— <i>Upper Senior,</i>	11 a.m. Mon., Wed., Fri., . .	2 2 0§	
<i>Astronomy,</i>	3 p.m. Tu. and Fri.,	1 1 0	DR. GRANT.

* In the Classes in the Faculties of Law and Medicine the Session will be opened on Tuesday, 21st October. (See pp. 45, 46.)

† The fee for a Third Session of Latin or Greek is £1 1s.

‡ Fee for a Second Session, £3 3s.

§ Free to those who have attended the Senior and qualifying course of Mathematics for the degree of M.A.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Civil Engineering and Mechanics, Course I.,</i> . . .	{ 8 a.m., Mon., Wed., and Fri., . . .	{ £3 3 0*	DR. BARR.
———— <i>II.,</i> . . .	{ 8 a.m., Tues., Thurs., and Sat., . . .	{ 3 3 0*	
———— <i>IV.,</i> . . .	{ 12 noon daily, ex. Sat.,	{ 3 3 0*	
<i>Engineering, Drawing and Calculations,</i> . . .	{ 9 a.m. till 5 p.m. daily, except Sat., . . .	{ 3 3 0*	
<i>English Language and Literature,</i> . . .	{ Junior, 1 p.m., Mon., Tu., Th., and Fri.,	{ 3 3 0	MR. BRADLEY.
	{ Senior, 4.30 p.m., Mon., Wed., Th., and Fri.,	{ 3 3 0†	
<i>Naval Architecture and Marine Engineering, Junior,</i> . . .	{ 11 a.m., Mon., Wed. and Fri., . . .	{ 3 3 0	MR. JENKINS.
———— <i>Senior,</i> . . .	{ 11 a.m., Mon., Tu. & Th.,	{ 3 3 0	
———— <i>Practical, Junior,</i> . . .	{ 1 till 3 p.m., Wed. & Fr.,	{ 3 3 0	
———— <i>Senior,</i> . . .	{ 1 till 3 p.m., Tu. and Th.,	{ 3 3 0	

II.—THEOLOGY.

MONDAY, 10TH NOVEMBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Divinity, Senior,</i> . . .	11 a.m., . . .	£3 3 0	DR. DICKSON.
———— <i>Junior,</i> . . .	12 noon, . . .	3 3 0	
<i>Hebrew, Junior,</i> . . .	10 a.m., . . .	3 3 0	DR. ROBERTSON.
———— <i>Senior,</i> . . .	{ 9 a.m. daily, and 1 p.m. Tu. and Th.,	{ 3 3 0‡	
———— <i>Private,</i> . . .	{ 1 p.m. Mon., Wed., and Fri., . . .	{ 1 1 0	
<i>Ecclesiastical History, Junior,</i> . . .	11 a.m., . . .	3 3 0	
———— <i>Senior,</i> . . .	12 noon, . . .	3 3 0	DR. STORY.
<i>Biblical Criticism,</i> . . .	10 a.m., . . .	3 3 0	DR. STEWART.
<i>New Testament Greek,</i> . . .	9 a.m., Tu., Wed., Th.,	2 2 0||	

III.—LAW.

TUESDAY, 21ST OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Scottish Law,</i> . . .	8 a.m., . . .	£4 4 0§	MR. MOODY STUART.
<i>Civil Law, (see p. 77),</i> . . .	. . .	4 4 0	
<i>Conveyancing,</i> . . .	8 a.m., . . .	4 4 0§§	MR. MOIR.
* <i>Forensic Medicine</i> —in Summer (1891) (see under Faculty of Medicine), . . .			
		3 3 0§	DR. SIMPSON.
<i>Public Law,</i> . . .	5.30 p.m., Mon. and Th.,	3 3 0¶	MR. W. G. MILLER.
<i>Constitutional Law and History (in Summer, 1892),</i> . . .		3 3 0	MR. R. T. YOUNGER.

NOTE.—The Winter Classes in the Faculty of Law will close on the 1st of April.

* £2 2s. to those students who have already attended two courses; £1 1s. to those who have attended three courses.

† £2 2s. to students who have attended the Junior Class.

‡ Enrolment free for a Third Session in the Hebrew Classes.

|| £1 1s. to Students who are attending the Biblical Criticism Class.

§ Fee for a Second Session, £2 2s.; for a Third Session, £1 1s.

§§ Fee for a Second Session, £2 2s.

¶ Fee for a Second Session, £1 11s. 6d.

IV.—MEDICINE.

TUESDAY, 21ST OCTOBER.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Natural History, Zoology,</i>	1 p.m. daily (Oct.),	£3 3 0*	} DR. YOUNG.
<i>Geology,</i>	1 p.m. daily (Jan.),	3 3 0*	
<i>Zoological Laboratory,</i>	{ 10 a.m. to 1 p.m. daily (Jan.),	3 3 0*	
<i>Botanical Laboratory,</i> (Jan., Feb., Mar.),	10 a.m.,	2 2 0	DR. BOWER.
<i>Clinical Medicine,</i>	9 a.m.,	(see p. 91)	{ DR. M'CALL ANDERSON and DR. GAIRDNER.
<i>Clinical Surgery,</i>	9 a.m.,	(see p. 91)	{ DR. GEORGE BUCHANAN and SIR G. H. B. MACLEOD.
<i>Chemistry,</i>	10 a.m.,	3 3 0*	} MR. FERGUSON.
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m.,	10 10 0	
<i>Junior Anatomy,</i>	2 p.m.,	3 3 0†	} DR. CLELAND and Demonstrators.
<i>Senior Anatomy,</i>	11 a.m.,	3 3 0†	
<i>Practical Anatomy,</i>	9 a.m. to 4.45 p.m.,	3 3 0	
<i>Practice of Medicine,</i>	11 a.m.,	3 3 0†	DR. GAIRDNER.
<i>Materia Medica,</i>	12 noon,	3 3 0*	DR. CHARTERIS.
<i>Institutes of Medicine,</i>	12 noon,	3 3 0*	} DR. M'KENDRICK and Muirhead Demonstrator.
<i>Physiological Laboratory,</i>	10 a.m. to 4 p.m.,	—	
<i>Surgery,</i>	1 p.m.,	3 3 0†	SIR G. H. B. MACLEOD.
<i>Forensic Medicine</i> (in Summer),	.	3 3 0†	DR. P. A. SIMPSON.
<i>Midwifery,</i>	2 p.m.,	3 3 0†	DR. LEISHMAN.
<i>Diseases of Women</i> (in Summer),	.	2 2 0	DR. LEISHMAN.
<i>Public Health</i> (January),	.	3 3 0	{ DR. SIMPSON and MR. FERGUSON.
<i>Pathology,</i>	3 p.m.,	(See p. 48.)	—
<i>Lectures on the Eye</i> (in Summer),	.	2 2 0	DR. T. REID.
<i>Insanity</i> (in Summer),	.	2 2 0	DR. YELLOWLEES.

NOTE.—The Winter Medical Classes will close on Friday, March 27.

SUMMER SESSION, 1891.

During the SUMMER SESSION, which opens on FRIDAY, May 1, the following courses will be delivered:—

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Botany</i> (College),†	8 a.m.,	£3 3†	} DR. BOWER.
<i>Botanical Laboratory,</i>	9 a.m. to 4 p.m.,	2 2	
<i>Botanical Demonstrations,</i>	In Botanic Garden,	—	
<i>Clinical Medicine,</i>	9 a.m.,	(see p. 91)	{ DR. M'CALL ANDERSON and DR. GAIRDNER.
<i>Clinical Surgery,</i>	9 a.m.,	(see p. 91)	{ DR. GEORGE BUCHANAN and SIR G. H. B. MACLEOD.

* Fee for a Second Session, £2 2s.

† Fee for a Second Session, £2 2s.; for a Third Session, £1 1s.

‡ By resolution of Senate, only those courses of Botany which are delivered during the Summer Session are recognized as qualifying for Graduation at this University; and the Winter Course of Lectures on Botany is now discontinued.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	<i>Professors.</i>
<i>Practical Chemistry, . . .</i>	9 to 11 a.m., . . .	£3 3*	} MR. FERGUSON.
<i>Chemical Laboratory, . . .</i>	10 a.m. to 4 p.m., . . .	5 5	
<i>Organic Chemistry, . . .</i>	—	
<i>Anatomical Lectures, . . .</i>	11 a.m., . . .	} 2 2	{ DR. CLELAND and Demonstrators.
<i>Practical Anatomy, . . .</i>	8 a.m. to 3 p.m., . . .		
<i>Forensic Medicine, . . .</i>	11 a.m., . . .	3 3*	DR. SIMPSON.
<i>Zoology, Lectures, . . .</i>	12 noon, . . .	3 3*	} DR. YOUNG.
<i>Zoological Laboratory, . . .</i>	9 a.m. to 1 p.m., . . .	3 3*	
<i>Practical Materia Medica, . . .</i>	12 noon, . . .	3 3*	DR. CHARTERIS.
<i>Practical Physiology, . . .</i>	12 noon, . . .	3 3*	} DR. M'KENDRICK and Muirhead Demonstrator.
<i>Physiological Laboratory, . . .</i>	10 a.m. to 4 p.m., . . .	—	
<i>Practical Pathology, . . .</i>	12 noon, . . .	(see p. 48),	—————
<i>Practice of Medicine, . . .</i>	1 p.m. Tu. and Th., . . .	†	DR. GAIRDNER.
<i>Operative Surgery, . . .</i>	1 p.m. Mon., Wed., Fri., . . .	2 2	SIR G. H. B. MACLEOD.
<i>Diseases of Women, . . .</i>	2 p.m. Tu., Th., Fri., . . .	2 2	DR. LEISHMAN.
<i>Lectures on the Eye, . . .</i>	2 p.m. Tu. and Th., . . .	2 2†	DR. T. REID.
<i>Constitutional Law and History (in Summer, 1890)</i>			3 3 MR. R. T. YOUNGER.
<i>Insanity, . . .</i>	{ 12 noon, Wed. (University), 10 a.m., Sat. (Gartnavel), —	{ 2 2	DR. YELLOWLEES.

WESTERN INFIRMARY.—This Hospital contains 400 beds for medical and surgical patients, including Wards for Skin Diseases, and one for diseases peculiar to females. *Physicians*—Prof. W. T. Gairdner, M.D., LL.D.; Prof. T. M'Call Anderson, M.D.; James Finlayson, M.D.; Gavin P. Tennent, M.D.; Prof. W. Leishman, M.D. (*Diseases of Women*). *Assistant Physicians*—Joseph Coats, M.D.; James Christie, M.D. *Surgeons*—Prof. Sir George H. B. Macleod, M.D.; Prof. George Buchanan, M.D., LL.D.; A. Patterson, M.D.; Hector C. Cameron, M.D. *Honorary Consulting Ophthalmic Surgeon*—T. Reid, M.D. *Assistant Surgeons*—J. C. Renton, M.D.; George T. Beatson, M.D. *Dispensary Physicians*—John Alexander, M.D.; William G. Dun, M.D.; R. Stevenson Thomson, M.B.; George Dickson, M.D.; C. O. Hawthorne, M.B. *Dispensary Physicians for Diseases of Women*—W. L. Reid, M.D.; Robert Kirk, M.D.; Murdoch Cameron, M.D. *Dispensary Surgeons*—David Newman, M.D.; A. Ernest Maylard, M.B.; T. K. Dalziel, M.D. *Extra Dispensary Surgeon*—James Parker, M.D. *Dispensary Surgeon for Diseases of the Ear*—Thomas Barr, M.D. *Dispensary Surgeon for Diseases of the Throat*—J. Walker Downie, M.D. *Surgeon*

* Fee for a Second Session, £2 2s.

† Open to all Matriculated Students of the University who have completed their second winter of Medical study.

† Includes fee for attendance at Eye Infirmary

Dentist—W. D. Woodburn, L.D.S. *Pathologist*—Joseph Coats, M.D. *Vaccinator*—William MacLennan, M.B. *Medical Superintendent*—A. W. Russell, M.A., M.B. *Lady Superintendent*—Miss E. Clyde. *Secretary*—Henry Johnston, 125 Buchanan Street. The hour of visit is 9 A.M. The Dispensary for Out-Patients is open daily at 2 P.M. Vaccination—Mondays and Thursdays at 12 noon. The station is recognized by the Local Government Board. Fee, £1 1s. According to the present arrangement admission to the practice of this Infirmary is subject to the following regulations:—

1. That every student paying at the commencement of his First Year a Fee of £10 10s., will be entitled to admission to the Infirmary, and also to attend Courses of Clinical Instruction during the winter and summer of the said year.

2. That every student who has thus paid £10 10s., and shall at the commencement of his Second Year pay a further Fee of £10 10s., will have the privilege of admission to the Infirmary, and to the several courses of Clinical Instruction during his lifetime.

3. That the Fee for Hospital Attendance and Clinical Instruction for Six Months only be £7 7s.

4. That the Fee for Hospital Attendance and Clinical Instruction for Three Months only be £4 4s.

5. Any student who shall have paid Fees to the amount of £21 or upwards, in the payments as stated above, shall be entitled to a Ticket, admitting him to the Infirmary, and to the Clinical Instruction during his lifetime.

6. There shall be two Courses of Clinical Instruction—the one in the Winter, and the other in the Summer session.

PATHOLOGY.—Dr. Joseph Coats gives a Course of Lectures on Pathology, at 3 P.M., on Monday, Wednesday, and Friday during the Winter session; and also a Course of Practical Pathology daily, in sections, at 8 A.M., 11 A.M., and 12 noon, during the Summer session. The Fee for the combined Course is £4 4s.

Students who have taken the Hospital Ticket previous to 1st October, 1876, will continue at the scale of Fees then in use, but an additional payment of £10 10s. will make them perpetual students of the Hospital, and admit also to the Clinical Classes under the above rules.

Students who have completed their Clinical Course elsewhere shall be permitted to enter for a six months' course of the *Hospital only*, on payment of a Fee of £2 2s.

OUT-DOOR VISITATION.—Senior Students who have passed their Third Professional Examination are permitted to visit the sick poor in the Anderston district, under the supervision of certain Professors of the University and assistants.

ROYAL INFIRMARY.—Hour of Visit—Surgical, 9 A.M.; Medical, 10 A.M. Clinical Lectures given by the Physicians and Surgeons. Fees for Hospital attendance and Clinical Instruction—same as in the Western Infirmary, excepting fee for six months, which is £6 6s. in the Royal Infirmary.

EYE INFIRMARY, 170 Berkeley Street.—Hour of Visit, 1 P.M. daily. Fee for six months, £2 2s.; to those attending, or who have attended, the Lectures on the Eye delivered in the University, free.

INSANITY.—Dr. Yellowlees gives in the University a Course of Lectures on Insanity at 12 noon on Wednesdays during the Summer session, and Clinical Instruction at the Glasgow Royal Asylum, Gartnavel, at 10 A.M. on Saturdays. Fee for the combined Course, £2 2s.

There are also Dispensaries for Diseases of the Skin and Ear, and Clinical Instruction in Fevers is given at the Belvidere Hospital.

FACULTIES IN THE UNIVERSITY.

The whole classes of the University are divided into four Faculties—Arts; Divinity; Law; Medicine.

I.—FACULTY OF ARTS.

The Faculty of Arts embraces the classes of Humanity, Greek, Logic and Rhetoric, Moral Philosophy, Natural Philosophy, Mathematics, and English Language and Literature, on all of which attendance is required for a degree in Arts, and also the classes of Practical Astronomy, Civil Engineering and Mechanics, and Naval Architecture.

HUMANITY.

The original foundation of this Professorship is not extant ; but it appears from the records of the College that it must have been instituted previous to the year 1637. The Professor is elected by the University Court.

Professors from the year 1706.

1706. Andrew Rosse.	1773. Wm. Richardson, M.A.
1735. George Rosse.	1815. Josiah Walker, M.A.
1754. George Muirhead.	1831. William Ramsay, M.A.
1863. GEORGE G. RAMSAY, M.A., LL.D.	

The Humanity Class consists of four divisions—*Junior, Middle, Senior, and Private (or Upper Senior) Class*, which latter Class all members of the ordinary Senior Class have the option of attending. Students not requiring a Public Certificate for the Degree or other purpose may attend as Private Students. Private Students attend the Class without taking part in the Class work.

In all the Classes the Students prepare certain work prescribed, and are examined orally every day. In the Private Class the business is conducted largely by Lectures and Prelections delivered by the Professor.

Junior Class.

The JUNIOR CLASS meets daily from 8 to 9 A.M. on every week day except Saturday. The subjects of study are : Ovid, Tibullus, Virgil, Cicero, Livy—Latin Grammar—Prosody—Easy Latin Prose Composition.

Middle Class.

The MIDDLE CLASS meets daily from 8 to 9 A.M., and from 11 A.M. to 12. The subjects read are : Ovid, Tibullus and Propertius, Virgil, Horace, Cicero, Livy, together with Latin Prose Composition—Grammar—Prosody—History and Antiquities.

Students entering the Middle Latin Class must have a good knowledge of Latin Grammar, and be able to translate at sight simple passages from Latin into English, and both simple and compound sentences from English into Latin. All students entering the Latin Class for the first time in November, 1890, (with the exception of those who pass the Preliminary Examina-

tion for entrance into the Senior Class—see Index, *Preliminary Examination in Arts*), will be examined in the above subjects on Thursday, 6th November, at 7.45 A.M., and they will be placed in the Middle or Junior Class, respectively, in accordance with the result of that Examination. A specimen of the paper will be found at the end of the Calendar.

No student below the age of 17 can obtain a Public Certificate qualifying for the Degree of M.A. unless he has passed the University Entrance Examination (see Index). Students below the age of 17, who fail to pass that examination, are allowed to join the Junior Class for purposes of instruction, and to obtain Private Certificates, but cannot gain certificates of attendance qualifying for the degree. Students above the age of 17 who attend the Junior Class will receive Public Certificates qualifying for the degree.

Senior Class.

The SENIOR CLASS meets daily from 9 to 10 A.M. and all students attending the Senior Class have the option also of attending the Private (or Upper Senior) Class from 1 to 2 P.M. The subjects of study in the class at 9 A.M. are:—The works of Horace—Propertius—Virgil—Cicero—Sallust—Livy—Tacitus—Latin Prose Competition—Latin Prosody—Roman History and Antiquities. The students are examined on paper at intervals during the session. Students may enrol in the Senior Class for Latin Prose only, in which case the Fee is £1 1s.

All students who propose to join the Senior Class, are examined on paper, at the commencement of the session, to test their fitness for the Class. The examination for 1890-91 will be held on Thursday, 6th November, at 9 a.m. The paper will include (a) Sentences or passages for translation into Latin. Students are expected to have an accurate knowledge of all Syntax, as explained in Ramsay's Exercises, Parts I. and II. (b) Unseen Translation. Students are advised to read Horace, *Odes*, Book II., and Livy, Book XXI., Cap. 25-60 inclusive. Students who have attended the Junior or Middle Class in their first Session are debarred from passing to the Senior Class in the following session unless they satisfy the Professor, in the examination prescribed above, that they are fit to enter the Class.

Private or Upper Senior Class, 1 p.m.

This Class is an Honour or Third-year Class, at which advanced work is read. All students who attend the 9 A.M. Class are entitled to attend at 1 p.m. also. Students who attend daily at 1 p.m., and do all the work of the Class, receive tickets qualifying for the M.A. Degree.

One subject is read and lectured upon on Mondays and Fridays; another on Tuesdays and Thursdays; on Wednesdays special classes in Latin Prose are held, at which all students of the 9 A.M. Class attend. Students may join any of these courses separately. They are also allowed to attend as Private Students, *i.e.*, as listeners only, without doing any of the work of the Class; but in that case they do not receive tickets qualifying for the Degree.

Students wishing to do Latin Prose, for the Degree or other purposes, may attend one of the special Sections for Latin Prose which meet weekly at 1 p.m. on Wednesdays, at a fee of £1 1s.

The Students are examined orally and on paper at intervals during the session, both in the subjects read in the Class and on voluntary subjects specially prescribed. A course of five sessions embraces Lectures and Prelections on Plautus—Terence—Lucretius—Catullus—Propertius—Virgil—Persius—Juvenal—Martial—Tacitus.

In all the classes, written exercises in Latin Prose are prescribed regularly, and in the Private Class exercises in Latin or English Verse may be prescribed also.

The fee for any of the Classes is	-	-	-	£3	3	0	
For Students who return for a Third Session,				1	1	0	
For Latin Prose only,	-	-	-	-	1	1	0

The Books read in the Session 1890-91 will be as follows:—

1. UPPER SENIOR CLASS, AT 1 P.M.—Plautus, *Miles Gloriosus*; Horace, *Satires II.*; Juvenal; Virgil, *Æn. XI.*

2. SENIOR CLASS, 9 A.M.—Odes of Horace; Letters of Cicero (Pritchard and Barnard); Tacitus, *Germania.*

3. MIDDLE CLASS, AT 8 A.M.—Cicero, *Pro Muraena*; Virgil, *Georgic III.* At 11 A.M.—Selections from Ovid; Livy, *XXI.* (Capes).

4. JUNIOR CLASS, 8 A.M.—Selections from Ovid ; Livy, XXI. (Capes).

N.B.—*Attendance on the Middle Class of Humanity does not count in place of attendance on the Senior Class for the purpose of Graduation in Arts except by special leave granted by the Senate on the recommendation of the Professor.*

GREEK.

This Professorship was founded by the College in or about the year 1581. The Professor is elected by the University Court.

Professors from the year 1704.

1704. A. Dunlop, LL.D.	1821. Sir Daniel K. Sandford, M.A.
1746. James Moor, LL.D.	1838. Edmund L. Lushington, LL.D.
1774. John Young, M.A.	1875. R. C. Jebb, Litt.D., LL.D.

1889. G. G. A. MURRAY, B.A.

The Greek Class consists of three divisions, the Senior, the Middle, and the Junior. Students not requiring a public Certificate may attend as Private Students, *i.e.* without doing the work of the class.

In all the Classes a certain piece of work is prescribed every day, and the class examined orally upon it. Besides this, at least twice in the session all the Classes are examined on paper on their whole work.

Students are placed in the several Classes in accordance with the result of an Examination held at the opening of the Session.

The Examination for entrance to the Senior Class of 1890-91 will be held on Thursday, November 6, 1890, at 8 A.M.; for the Middle Class, at 10 A.M. on the same day.

Students who pass the University Preliminary Examination, and also those who have already attended the several Classes, are exempted from the above Examination.

The Examination will in each case consist of Grammar, sentences for translation, and easy general questions. Candidates for the Senior Class will also have a short piece of Unseen Translation.

JUNIOR CLASS ('TIRONES').

The Junior Class meets at 12 noon every week day except Saturday.

All students should possess the following books: *Ancient Atlas*; *Primer of Philology*, Peile; *Greek Lexicon*, Liddell & Scott; *Primer of Greek Literature*, Jebb; *Greek Grammar*, Goodwin.

All students before joining the Class should prepare the above mentioned Grammar to the end of the Verb.

The Class reads extracts from Xenophon and other Greek writers. There are also written exercises in Greek Composition, and examinations in Grammar and the elements of Philology.

MIDDLE CLASS ('PROVECTIONES').

The Middle Class meets at 10 A.M. on every week day except Saturday.

The Class usually reads the easier Attic authors, including Lucian. Written exercises in Greek Composition form part of the work.

For teaching purposes the Class is sometimes divided into two sections, called 'Upper' and 'Lower' Middle respectively.

SENIOR CLASS.

The Senior Class meets at 8 A.M. and certain members of it at 2 P.M. on every week day except Saturday.

(1) 8 A.M.

At 8 A.M. the Class reads various Greek authors, and is examined orally every day. No composition is done at this hour.

(2) 2 P.M.

At 2 P.M. more advanced work is done: a certain portion of the work bears specially upon the Degree, both for Pass and for Honours. Members of the Senior Class are recommended to attend, but are not in any way bound to do so. Students not requiring a Public Certificate may attend as Private Students, *i.e.* without doing the work of the Class.

Greek Composition forms part of the work.

There is less oral examination in the teaching of this Class, the Professor generally giving lectures or prelections.

Fee for any Public Class, - - -	£3	3	0
For attending as a Private Student at 2 P.M.,	1	11	6
For a Third Session in any Class, - -	1	1	0

Subjects for Session 1890-1.

JUNIOR CLASS.—Goodwin's *Greek Grammar*; Sidgwick's *First Greek Writer*. Morice's *Stories in Attic Greek*; Xenophon, *Anabasis*, book iii., Marshall.

MIDDLE CLASS.—Lysias, *Epitaphios*, Snell; Euripides, *Alcestris*, Jerram; Lucian, *Somnium*, *Charon*, etc., Heitland; Composition.

SENIOR CLASS.—Demosthenes, *Philippic* i. and *Olynthiacs* i-iii., Abbott and Matheson; *Homer, *Odyssey* ix., Merry; Aristophanes, *Acharnians*, Merry.

SENIOR AND PRIVATE CLASS.—Pindar, *Nemean and Isthmian Odes*, Fennell; *Plato, *Protagoras* (to p. 328 C.); *Aeschylus, *Prometheus*; Composition.

N.B.—*Strictly speaking, no student can proceed to his Degree in Arts without a session in the Senior Greek Class. When, however, a student is prevented from attending at 8 a.m. he may obtain a Senior Certificate by attending at 2 p.m. provided that he passes both the written examinations. Under special circumstances a student is allowed to count a session of the Middle Class as equivalent to a session of the Senior, provided that it is impossible for him to attend the Senior, and that by his work during the session and in both the examinations he satisfies the Professor that he is worthy of a Senior certificate.*

LOGIC AND RHETORIC.

This Professorship is one of those founded in the charter of *Nova Erectio*, in 1577. The Professor is elected by the University Court.

Professors from the year 1727.

1727. John Loudon.

1751. Adam Smith, LL.D. | 1787.[†] George Jardine, M.A.

1752. James Clow. | 1827.[‡] Robert Buchanan, LL.D.

1864. JOHN VEITCH, LL.D.

This Class meets daily, on five days of the week, from 9 to 10 A.M. for Lecture, and on Mondays, Wednesdays, and Fridays, from 11 to 12 noon, for Oral Examination and the Reading of Exercises and Es-ays.

^{*} Subjects for the ordinary degree of M.A., November, 1891, and April, 1892.

[†] Mr. Jardine was assistant and successor to Mr. Clow from 2nd June, 1774.

[‡] Mr. Buchanan was assistant and successor to Mr. Jardine from 1st October, 1824.

The Course of Lectures is so arranged as to embrace the following subjects in each session :—

I. PSYCHOLOGY AND METAPHYSICS—under which is given an account of the Faculties and Capacities of the Mind, and of the General Nature, Limits and Objects of Human Knowledge.

II. LOGIC.—(A) Pure or Formal Logic, embracing the Doctrine of Notions (Terms), Propositions, Reasonings, Fallacies. (B) Applied or Material Logic, embracing the Theory and Processes of Science (Observation, Induction, Deduction), and the General Laws of Evidence. Instruction in Logic is conveyed partly by means of a text-book, viz., *Institutes of Logic*.

III. RHETORIC.—A portion of the course is devoted to the Principles of Rhetorical and Oratorical Excellence.

Exercises and Essays on subjects connected with the course are prescribed to the Students ; and General Written Examinations take place at regular intervals during the currency of the session.

The Class is annually arranged into two divisions, Senior and Junior, according to the age of the students ; and prizes, adjudged by the votes of their class-fellows, are assigned, in each of the divisions, to those who have most distinguished themselves by diligence, proficiency, and ability in the exercises and examinations of the session.

The Fee for the Ordinary course is £3 3s.

An advanced Class for the HIGHER METAPHYSICS—embracing the subjects prescribed for honours in Mental Philosophy, meets twice a week, on Tuesdays and Thursdays, from 1 to 2 P.M.

Fee for the Advanced Course, - - - £1 11 6

N.B.—*To qualify for the Arts Degree, the Logic Class and the Moral Philosophy Class must be attended in separate sessions, the Logic Class being taken first.*

MORAL PHILOSOPHY.

This Professorship was founded by the charter of *Nova Erectio*, in 1577. The Professor is elected by the University Court.

Professors from the year 1727.

1727. Gerschom Carmichael.	1764. Thomas Reid, D.D.
1730. F. Hutcheson, LL.D.	1796.*Archd. Arthur, M.A.
1746. Thomas Craigie.	1797. James Mylne, M.A.
1752. Adam Smith, LL.D.	1839. William Fleming, D.D.
1866. EDWARD CAIRD, LL.D.	

The Moral Philosophy Class meets at 8 A.M. on five days of the week for Lecture, and at 11 A.M. on Mondays and 8 A.M. on Saturdays for examination. Public students must attend at the hours of Lecture, and either on Saturday at 8 A.M. or on Monday at 11 A.M. for examination. In the Lectures, Moral Philosophy is treated both historically and systematically.

One of the most important works on Moral Philosophy is usually selected in each year as the text-book (the work selected to be announced at the beginning of the session); and in connection with it Lectures will be given on Metaphysics and Psychology as the basis of morals, on the principles of Jurisprudence and Social Ethics, and on the relations of Ethics to Theology. An account will also be given of the historical development of Morals, and of the main ancient and modern theories on ethical and social subjects.

In the Higher Moral Philosophy Class Mr. Caird will lecture upon one or other of the subjects for the Degree with Honours, at an hour to be fixed according to the convenience of students.

In the Political Economy Class Mr. Smart (acting as assistant to Professor Caird) will give a Course of Lectures on Economical Science, discussing the production and distribution of wealth, with special reference to the freedom of trade, the land system, Socialism, etc.

Fee for the Moral Philosophy Class, - - £3 3 0

Fee for the Political Economy Class, - - 1 11 6

N.B.—*To qualify for the Arts Degree, the Logic Class and the Moral Philosophy Class must be attended in separate sessions, the Logic Class being taken first.*

NATURAL PHILOSOPHY.

This Professorship was founded by the charter of *Nova Erectio*, in 1577; and the Professor was confined to the depart-

* Mr. Arthur was assistant and successor to Dr. Reid from 22nd May, 1780.

ment of Natural Philosophy in 1727. The Professor is elected by the University Court.

Professors from the year 1727.

1727. Robert Dick.

1751. Robert Dick, M.D.	|	1796. James Brown, LL.D.
1757. John Anderson, M.A.	|	1803. W. Meikleham, LL.D.
1846. SIR WILLIAM THOMSON, LL.D., D.C.L., F.R.S.		

The Natural Philosophy Class meets daily at 9 A.M., and at 11 A.M. or 12 noon.

The first hour is chiefly spent in statements of Principles, descriptions of Results of Observation, and experimental Illustrations. The second hour is devoted to Mathematical Demonstrations and Exercises, and Examinations on the Elementary parts of the course, on Tuesdays and Thursdays at 11 A.M.; and to a higher Mathematical Course on Mondays, Wednesdays, and Fridays, at 12 o'clock.

The text-books used are—

“A Treatise on Natural Philosophy,” by Professors Sir William Thomson and P. G. Tait (Cambridge University Press); “Elements of Natural Philosophy,” by the same authors (Cambridge University Press); “Dynamics and Hydrostatics,” by J. T. Bottomley (W. Collins & Sons); “Heat” and “Elasticity,” vol. iii. of Sir W. Thomson’s “Mathematical and Physical Papers” (Cambridge University Press); Deschanel’s “Experimental Physics,” translated by Everett; “Physical Optics,” by R. T. Glazebrook (Longmans & Co.); “Absolute Measurements in Electricity and Magnetism,” by A. Gray (Macmillan & Co.); “Mathematical Tables,” by J. T. Bottomley (Macmillan & Co.); “Exercises in Natural Philosophy,” by M. Maclean (James Maclehose & Sons).

The more elementary of the treatises by Thomson and Tait, along with Dynamics and Hydrostatics by Bottomley, will be used for the work required of all students of Natural Philosophy in the regular curriculum. The whole, or certain specified parts of the larger treatise, will be prescribed in connection with voluntary examinations and exercises in the class, and for candidates for the degree of M.A. with honours. Students who desire to undertake these higher parts of the business of the Class ought to be well prepared on all the subjects of the Senior Mathematical Class.

The Laboratory in connection with the Class is open daily from 10 A.M. to 4 P.M. for Experimental Exercises and Investigations, under the direction of the Professor and his official Assistant, and the Demonstrator in Experimental Physics.

The main divisions of the course are—

(1) Abstract Dynamics (including Elements of Physical Astronomy); (2) Properties of Matter; (3) Thermodynamics; (4) Illustration.

Illustration is conducted partly through examples and calculations; partly by experiment.

A programme of the subjects that will be taken up, as far as time permits, during the Session 1890-91, will be published before the commencement of the session, and may be had on application at the Natural Philosophy Class-room.

Fee for the Natural Philosophy Class, -	-	£4	4	0
„ Students of the Second Year, -	-	3	3	0
„ Physical Laboratory, -	-	5	5	0

For the Arnott and Thomson Demonstratorship in Experimental Physics, see p. 92.

N.B.—*For a Degree in Arts attendance on the qualifying course of Natural Philosophy must be subsequent to the completion of the qualifying course of Mathematics.*

MATHEMATICS.

This Professorship, long suppressed for want of funds, was revived by an Act of Faculty in 1691. The Professor is appointed by the University Court.

Professors from the year 1691.

1691. George Sinclair.

1699. Robert Sinclair, M.D.	1796.*James Millar, M.A.
1711. Robert Simson, M.D.	1832. James Thomson, LL.D.
1761. James Williamson, D.D.	1849. Hugh Blackburn, LL.D.
1879. WILLIAM JACK, LL.D.	

Lower Junior Class,

(Or FIRST YEAR'S COURSE.) Subjects: *Euclid* and *Algebra*, both from the beginning. Two parallel subdivisions of the

Mr. Millar was assistant and successor to Dr. Williamson from 26th Feb., 1789.

Class meet daily (except on Saturdays), one from 9 to 10, and one from 10 to 11.

Upper Junior Class,

(OR SECOND YEAR'S COURSE), for Students who have attended the first year's course, or who have otherwise acquired a knowledge of Euclid, Books I., II., III., IV., and of Algebra, as represented by the first twenty-two Chapters (Chaps. XIV., XV., XIX. excepted) of Todhunter's larger text-book. Subjects: *Euclid*, Books V., VI., and XI., more advanced *Algebra* and the elements of transversals, *Elements of Trigonometry*. Two parallel subdivisions of the Class meet daily (except on Saturdays), one from 9 to 10, and one from 12 to 1. The latter is subdivided into two sections according to acquirements ascertained by an examination in the first fortnight of the session.

Senior Class,

(OR THIRD YEAR'S COURSE.) Subjects: *Plane Trigonometry*, *Geometrical and Analytical Conics*, *Differential and Elements of Integral Calculus*. The Senior Class meets from 10 to 11 daily, except on Saturdays.

Upper Senior Class.

Subjects: *Integral Calculus*, *Spherical Trigonometry*, *Geometry of Three Dimensions*, *Differential Equations*, *Finite Differences*. The Class meets at 11-12 on Mondays, Wednesdays, and Fridays.

Attendance on the Mathematical Classes, for not less than two Winter Sessions, one of which must be on either the Upper Junior or the Senior Class, is required for the degree of M.A., "unless the candidate at the time of his entrance to the University shall satisfy the Professors in the Faculty of Arts, on examination, that he is qualified to attend the Senior Class," in which case attendance on the Senior Class for one session is sufficient.

The Fee for each Session is - - - - £3 3 0

The Fee for the Upper Senior Class is - - 2 2 0

No Fee is charged for the Upper Senior to students who have completed their qualifying course of attendance for M.A., and who have attended the Senior Class. All the Mathematical

Classes are free to students who have attended three complete sessions.

For the “Lorimer,” the “Metcalf,” and the “Muir” Bursaries in Mathematics, see under Bursaries; and for the Cunninghame Gold Medal, see under Prizes.

N.B.—*Attendance on the qualifying course of Natural Philosophy for the Degree of M.A. must be subsequent to the completion of the qualifying course of Mathematics. Two sessions of the Lower Junior Class of Mathematics do not constitute two Sessions of Mathematics for the purpose of graduation in Arts.*

PRACTICAL ASTRONOMY.

The Professorship of Practical Astronomy was founded in the year 1760, conjointly with the office of Observer in the University of Glasgow, and is in the gift of the Crown.

Professors.

1760. Alexander Wilson, LL.D.

1784.*Patrick Wilson, LL.D. | 1803. James Cooper, D.D.

1799. W. Meikleham, LL.D. | 1836. John P. Nichol, LL.D.

1859. ROBERT GRANT, LL.D., F.R.S.

An Observatory has always existed in connection with this Chair. The present Observatory is situated on an eminence in the immediate vicinity of the University buildings. The principal instruments are:—A Meridian Circle of three feet six inches diameter, by Ertel of Munich; and an equatorially-mounted Refractor, of nine inches aperture, and thirteen feet focal length, by Cooke of York. The acquisition of the latter instrument is mainly due to the liberality of a few private gentlemen chiefly residing in Glasgow.

Dr. Wilson, the second occupant of the Chair, bequeathed to the University the sum of one thousand pounds, upon the condition that the interest thereof should be applied to the purchase of instruments and books for the use of the Professor of Astronomy and the students attending his prelections.

The Professor of Practical Astronomy is chiefly occupied in directing the operations of the Observatory; but he also delivers a short Course of Lectures on Astronomy at the College

* Dr. P. Wilson was assistant to his father from 5th June, 1782.

during the session, and gives expositions on instruments and methods of observation at the Observatory. The Fee for the Course is £1 1s.

CIVIL ENGINEERING AND MECHANICS.

The Professorship of Civil Engineering and Mechanics was instituted by Queen Victoria in 1840, and is in the gift of the Crown. The emoluments of the Chair were increased in 1872 by a supplemental endowment* by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow; and more recently, in 1876, an Assistantship was founded by bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow.†

Professors.

- 1840. Lewis D. B. Gordon, C.E.
- 1855. William J. Macquorn Rankine, C.E., LL.D.
- 1873. James Thomson, C.E., LL.D., D.Sc., F.R.S.
- 1889. ARCHIBALD BARR, D.Sc., M.Inst.C.E.

The Courses of the Professor of Engineering extend throughout the winter session, that is from the beginning of November till the end of April. They comprise Lectures on Engineering Principles and Practice, Instruction in Geometrical Drawing and in Engineering Drawing and Calculations, and visits to Engineering Works and Manufactories.

These Courses are designed primarily to suit students who intend to devote themselves to Civil, Mechanical, Electrical, or Mining Engineering, but most of the work of the Classes will be found of direct practical utility to architects and to men who are engaged in any occupations connected with manufactures.

The work of the Classes is not intended in any way to supersede the usual requirements of pupilage or apprenticeship in Engineering, but to enable the Engineer to gain such a knowledge of the principles underlying his profession or trade as he cannot acquire by only working in the office, in the field, or in the workshop. The Classes may be attended either before or after pupilage or apprenticeship, or concurrently therewith.

* The annual income of a sum of £5,000.

† The salary for the Young Assistantship thus founded is £140, or thereby.

Four Courses of Lectures are arranged for, three of which will be delivered in each session.

To suit the convenience of men engaged in offices and works, two of the Classes will be held at 8 A.M., and it is intended that in future sessions the advanced course shall be held at 9 A.M.

COURSE I.—THE MATERIALS OF CONSTRUCTION AND THE ELEMENTS OF APPLIED MECHANICS.—Mondays, Wednesdays, and Fridays, at 8 A.M.—The Lectures will treat of the Origin, Preparation, and Properties of the Chief Constructive Materials, especially of Cast Iron, Wrought Iron, Brass, and other Alloys, Building Stones, Cements and Concrete, and of the more Elementary Principles of Mechanics in their application to problems connected with Engineering Structures and Machines.

COURSE II.—SURVEYING, LEVELLING, AND SETTING-OUT OF WORKS.—Surveying with the Chain and with Angular Instruments; Levelling; the Optical and Mechanical Principles, Tests, and Adjustments of Surveying and Levelling Instruments; Setting-out of Works, especially Setting-out of Railways; Mensuration of Areas of Land and of Volumes in Earthworks, etc. The Lectures will treat for the most part of those portions of the subject which are not readily learned in ordinary field and office practice.

COURSE III.—PRIME MOVERS AND THE MECHANICS OF MACHINERY.—This Class will not be held during the present session. It is intended to be held in alternate years with Course II., on Tuesdays, Thursdays, and Saturdays, at 8 A.M. The Lectures will treat of the Theory of Steam and Gas Engines, the Elements of Machine Design, the Transmission of Power, and Friction and Lubrication in Machines. Attendance on this Course should be preceded by attendance on Course I.

COURSE IV.—HIGHER APPLIED MECHANICS AND HYDRAULICS.—Daily, except Saturday, at 12 noon. (It is intended that in future sessions this Class shall be held at 9 A.M.) The Lectures will treat of the Strength and Elasticity of Materials, the Strength and Stiffness of Beams, Girders, Columns, Framed Structures, &c.; Hydraulics and Hydraulic Appliances, including the Gauging of Water, the Flow of Water in Pipes, and the Principles of Water Wheels, Turbines, and Centrifugal Pumps.

Fee for each of the first and second courses taken,	£3	3	0
Fee for a third course,	-	-	2 2 0
Fee for a fourth course,	-	-	1 1 0

ENGINEERING, DRAWING, AND CALCULATIONS.—The drawing class room is open daily, except Saturday, from 9 A.M. till 5 P.M. Each student will be required to attend six hours per week (at times to be arranged at the commencement of the session), and will be expected to devote extra time to the performance of work in connection with the Classes. The work of the Classes will comprise Lectures and Practice in Civil and Mechanical Engineering Drawing, Descriptive Geometry, and Graphical Statics, and special times will be set apart for the performance of graphical work and calculations in connection with the lecture courses.

The scale of Fees is the same as that for the Lecture Courses.

Recommendation.—It is strongly recommended that students of Engineering should, if possible, get themselves engaged, for two or three summers within the period of their attendance in the University, in engineering or architectural service, in offices, or in workshops, or on works such as railways, water works, or harbour works in progress.

As to the Degrees of B.Sc. and D.Sc., in Engineering Science, see Index.

As to the Certificate of Proficiency in Engineering Science, see Index.

As to the Muir Bursaries, the Metcalfe Bursaries, the Walker Prizes, and the George Harvey Prize, in the Department of Civil Engineering and Mechanics, see Index.

ENGLISH LANGUAGE AND LITERATURE.

This Chair was founded by ordinance of the Universities Commissioners of date 25th November, 1861, and is in the gift of the Crown.

Professors.

1862. John Nichol, LL.D.

1889. ANDREW CECIL BRADLEY, M.A.

The Classes meet on four days of the week—the Junior Class on Monday, Tuesday, Thursday, and Friday, at 1 P.M.; the Senior Class on Monday, Wednesday, Thursday, and Friday, at 4.30 P.M. Attendance at either of these Classes will qualify students to proceed to their degrees. As the subject will be treated in a somewhat more advanced manner in

the Senior Class, students who have already some knowledge of English Literature are strongly recommended to take that Class.

Public students in both classes will be examined *viva voce*, and required to pass written examinations. Written exercises, which will be criticised by the Professor, are also required to be given in by all the public students of either class.

JUNIOR CLASS.

The Course will comprise—

1. Lectures on English Composition, in connection with Professor Nichol's *Composition Primer*.

2. A review of the history of English Poetry from Thomson to the death of Byron, with incidental lectures on the prose writers of that period. Text-Books recommended are Shaw's *Student's Manual of English Literature* or Arnold's *Manual of English Literature*. Some lectures will also be given, in connection with Professor Nichol's *Tables of History and Literature*, on the characteristics of the various periods of literature prior to Thomson.

3. A detailed study of the whole or part of Shakespeare's *Julius Caesar* (Beeching's edition, published by Rivington), and of the Coverley Papers in the *Spectator* (Salmon's edition, published by Longman).

SENIOR CLASS.

The Course will comprise—

1. More advanced lectures on English Composition (Professor Nichol's *Composition Primer*), together with Philological Lectures, tracing the growth of the English Language, and illustrating its affinities with other tongues.

2. A review of the history of English Poetry from Thomson to the death of Byron, with incidental lectures on the prose writers of that period. Text-Books recommended are Shaw's *Student's Manual of English Literature* or Arnold's *Manual of English Literature*. Some lectures will also be given, in connection with Professor Nichol's *Tables of History and Literature*, on the characteristics of the various periods of literature prior to Thomson.

3. A detailed study of the whole or part of Shakespeare's *Julius Caesar* (Beeching's edition, published by Rivington),

and of Tennyson's *In Memoriam* (Gatty's *Key to In Memoriam* will be found useful).

Class Fees—For either Class, £3 3s. For second year's attendance, £2 2s.

NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

The John Elder Chair of Naval Architecture was founded by the University in 1883. An endowment of £12,500 was provided by Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow. The Professor is appointed by the University Court.

Professors.

1883. Francis Elgar, LL.D. | 1886. PHILIP JENKINS.

The Courses of the Professor comprise a Junior Course of Lectures and Examination upon Naval Architecture and the Theory of the Steam Engine, and a Senior Course of Lectures and Examinations upon Naval Architecture and the Steam Engine; also a Junior and a Senior Course of Instruction in Ship Drawing and Calculations. The Junior Course of Lectures and Examinations may be taken in either the first or the second year of the regular curriculum, and the classes will meet on Mondays, Wednesdays, and Fridays at 11 A.M. The Classes of the Senior Course will be held on Mondays, Tuesdays, and Thursdays from 11 A.M. to 12 noon, or at any other hour that may be found convenient.

The Junior Course of Instruction in Ship Drawing and Calculations is expected to be taken by students in the first year of the regular curriculum; and the classes will be held on Wednesdays, and Fridays from 1 P.M. to 3 P.M. The classes of the Senior Course will be held on Tuesdays and Thursdays from 1 P.M. to 3 P.M., or at any other hour that may be found convenient.

Class Fee—For any Class, £3 3s.

A special Course of Evening Lectures will be given during the winter session of 1890-91, on the Stability of Ships, for which a student of any of the day classes may be enrolled without payment of any extra fee.

The fee for this Course only is one guinea, and the University fee five shillings.

As to the Degree of B.Sc. on the side of Naval Architecture and Marine Engineering, see Index.

As to the Clydebank Scholarship, the Lloyd's Register Scholarship, and the Elder Bursaries, see Index.

II.—FACULTY OF THEOLOGY.

The Faculty of Theology embraces the four classes of Divinity, Oriental Languages, Ecclesiastical History, and Divinity and Biblical Criticism.

The following regulations are applicable to students preparing for the ministry of the Church of Scotland. Under the Act of General Assembly, 1883, consolidating the Acts presently in force in regard to the study of Divinity, all candidates for the ministry are required to attend at the Divinity Hall either three full and regular sessions, or two full and regular sessions and three partial sessions; and to give at least two full sessions of regular attendance on the Classes of Church History, Hebrew, and Biblical Criticism.

Each student, in order to be enrolled *for the first year* of his attendance must present to the Professor of Divinity, *first*, a certificate from the Presbytery within the bounds of which he usually resides, and by which he has been examined on his knowledge of the Holy Scriptures according to the authorized version, and of the Catechetical standards of the Church; and, *secondly*, a certificate signed by the Convener or Vice-Convener of one of the four Examining Committees appointed, under the Act of Assembly, 1872, to conduct the examination of students previous to their entering the Divinity Hall.* In order to be admitted to this examination he must produce, in addition to the certificate from the Presbytery recommending him, the diploma of a Master of Arts, or certificates from the several

* The Examining Committee meet at the respective University seats shortly before the commencement of each session, the times and places of meeting being duly announced in the "Missionary Record" of the Church of Scotland for July annually, along with the names of the Conveners and Vice-Conveners of the respective Committees. The programme of the books and subjects of examination for Session 1890-91 will be found in the "Missionary Record" for April, 1890.

Professors under whom he has studied, that he has attended regularly all the classes prescribed by the Church for students who intend entering the Hall—viz., Latin, Greek, Logic, Mathematics, Moral Philosophy, Natural Philosophy, and English Literature, in such order as is prescribed at the University in which he has studied, and to the extent required for proceeding to the degree of Master of Arts. If he produces evidence that he holds the degree of Master of Arts, or that he has passed all the examinations required for taking that degree, it is competent for the Examining Committee to exempt him from examination in those branches of Literature and Science proficiency in which is denoted by such a degree. The examination extends also to the *New Testament in Greek* and the *Elements of Hebrew Grammar*.

The student, in order to his enrolment *for each subsequent session* of his course, is required to present to the Professor of Divinity a certificate from the Presbytery within whose bounds he chiefly resides, of his having been examined by them on the progress made by him in his studies, and of their satisfaction with the same, as well as a certificate of his good moral character from the minister of his parish, or, during a vacancy in the parish, from the moderator of the kirk-session.

At the close of each session every student is required to take with him to the Presbytery certificates from the several Professors, under whom he has studied, of his good conduct and proficiency.

By Act XX. of the General Assembly, 1889, it is enacted—“That all students of Theology, who have completed the prescribed course of theological instruction, shall, before applying to any Presbytery to be taken on trial for licence, be examined by the Synodical Committee already existing for the examination of students entering the Divinity Hall—with such addition to the number of members of each of the said Examining Committees as the General Assembly shall determine—on the various subjects of theological study, leaving to Presbyteries the powers of examination for licence hitherto possessed and exercised by them; but providing that every candidate for licence by a Presbytery shall produce to the Presbytery a certificate from one of the said Examining Committees that his examination by them has been sustained; it being always competent to the said Examining Committees to exempt students

who have taken the degree of Bachelor in Divinity at one of the Universities of Scotland from examination in those subjects of theological study, proficiency in which is denoted by the said Degree." *

Students are required to study the art of public reading and speaking under some competent teacher approved by the Faculty of Theology,† during at least one hour a week in each of two sessions, the attendance extending in every case over at least sixteen weeks of the session, and to produce before being taken on trials, due evidence of such attendance.

Each student is required during his curriculum to deliver *six* discourses—viz., an EXEGESIS in Latin on some controverted head in Divinity, a HOMILY in English, a CRITICAL EXERCISE on some portion of the original text of the Old Testament, an EXERCISE and ADDITION on some portion of the original text of the New Testament, a LECTURE on some portion of Scripture, and a POPULAR SERMON, with such other exercises as the Professors may think fit to prescribe. No student can be taken on trials for licence by any Presbytery until he has produced, along with Class Certificates from the Professors of Church History, Hebrew, and Biblical Criticism, a Certificate from the Professor of Divinity that the discourses so prescribed have been sustained.

The Faculty of Theology have adopted the following regulations as to the delivery of these discourses:—(1) That the Homily shall be given in to the Professor of Church History at such time as he shall appoint in the *first* session of the student's course; (2) that the Latin Exegesis shall be given in to the Professor of Divinity, and the Lecture to the Professor of Biblical Criticism, in the *second* year of the student's course, at such times as shall be appointed by these Professors respectively; and (3) that the Popular Sermon shall be given in to the Professor of Divinity, the Hebrew Critical Exercise to the Professor of Oriental Languages, and the Exercise and Addition to the Professor of Biblical Criticism, in the *third* session of the

* The dates of examination and the subjects fixed by each Board will be intimated in the "Missionary Record" for December, 1890.

† For the purposes of the Act of Assembly and to qualify for the competition for the Dowanhill Prizes, the following teachers are recognized:—Mr. G. W. Baynham, 43 Athole Gardens, Dowanhill; Mr. Henry Cooke, 202 Hope Street; Mr. Thomas Harrower, 197 Pitt Street; Mr. William S. Vallance, 291 Sauchiehall Street; Mrs. Cunningham Craig, 11 Kersland Street, Hillhead; and Mr. John Forsyth, Motherwell.

course, at such times as shall be appointed by the several Professors. The subjects of the Discourses will be prescribed by the Professors to whom they are severally to be given in.

DIVINITY.

This Professorship was founded in 1640, and the foundation ratified in Parliament. The Professor is appointed by the University Court.

Professors.

1640-50. David Dickson.	1740. Michael Potter.
1642-61. Robert Baillie.	1744. William Leechman, D.D.
1653. John Young.	1761. Robert Trail, D.D.
1669. Gilbert Burnet, D.D.	1775. James Baillie, D.D.
1674. David Liddell.	1778. William Wight, D.D.
1682. Alexander Ross, D.D.	1782. Robert Findlay, D.D.
1688. James Wemyss, D.D.	1814. Stevenson Macgill, D.D.
1692. James Wodrow.	1839. Alexander Hill, D.D.
1708. James Simson.	1862. John Caird, D.D.
1873. WILLIAM PURDIE DICKSON, D.D., LL.D.	

The Course of Theology extends over three sessions. The Lectures during next session will treat partly of Biblical Theology, partly of the History of Doctrine, and of Apologetics. A portion of time will be devoted to instruction in Systematic Theology on the basis of a text-book. Essays and discourses are prescribed to the students. In addition to the oral examinations on the Lectures, examinations in writing on the studies of the Class will be held at intervals during the session.

The Class will meet on five days of the week, in two divisions, the Senior at 11 A.M. and the Junior at 12 o'clock. Fee for each session, Three Guineas.

ORIENTAL LANGUAGES.

This Professorship was founded by Queen Anne, 1709. The Professor is appointed by the University Court.

Professors.

1709. Charles Morthland.	1761. Robert Trail, D.D.
1745. Alexander Dunlop, M.A.	1761. Patrick Cumin, LL.D.
1751. William Rouet.	1814. Gavin Gibb, D.D.
1753. George Muirhead.	1831. William Fleming, D.D.
1755. John Anderson, M.A.	1839. George Grey, D.D.
1757. James Buchanan, M.A.	1850. Duncan H. Weir, D.D.
1877. JAMES ROBERTSON, D.D.	

ARRANGEMENT OF CLASSES FOR SESSION 1890-91.

I.—*Junior Class (Hebrew)*, five days in the week at 10 A.M. (1) Hebrew Grammar, from the elements; (2) Readings from the easier Scriptures; (3) Lecture once a week on Old Testament Introduction; (4) Daily oral examinations, weekly written exercises, and four written examinations during the session. Students preparing for the ministry are recommended to take this class before entering the Divinity Hall.

II.—*Senior Class (Hebrew)*, five days in the week at 9 A.M., and Tuesday and Thursday at 1 P.M. (1) Revisal of Grammar, study of the syntax and the accents; (2) Reading from the Hebrew Scriptures; (3) Daily oral examination, weekly written exercises, expository essays, and four written examinations during the session; (4) Expository lecture once a week by the Professor.

The one o'clock hour on Tuesday and Thursday will be given, in the first part of the session, to revisal of grammar. Students found sufficiently prepared will be exempted from attendance at this hour; and with this view a written examination will be held at the commencement of the session on Davidson's Grammar.

III.—*Private Class (Arabic)*, Monday, Wednesday, and Friday, at 1 P.M.

Class Fee, £3 3s. Students who have taken two complete sessions may enrol for a third or a fourth free. The fee for the Private Class is £1 1s.

ECCLESIASTICAL HISTORY.

The Professorship of Ecclesiastical History was founded by George I., in the year 1716, but no appointment was made to

the Chair till the year 1720. The Professor is appointed by the Crown.

By his Commission, the Professor of Ecclesiastical History is also TEACHER OF CIVIL HISTORY in the University.

Professors.

1721. William Anderson.	1807.*William M'Turk, D.D.
1752. William Rouet.	1841. Jas. Seaton Reid, D.D.
1762. William Wight, D.D.	1851. Thos. T. Jackson, D.D.
1778. Hugh M'Leod, D.D.	1874. William Lee, D.D.
1886. ROBERT HERBERT STORY, D.D.	

The course extends over two sessions, and embraces a series of lectures as well as oral and written examinations. The junior and senior classes meet at separate hours, the junior from 11 to 12 o'clock, the senior from 12 to 1 o'clock.

Both classes are open to non-professional students. The fee for each session is Three Guineas.

DIVINITY AND BIBLICAL CRITICISM.

This Professorship was founded by ordinance of the Universities Commissioners, of date 25th November, 1861. The Professor is appointed by the Crown.

Professors.

1863. William P. Dickson, D.D.
1873. WILLIAM STEWART, D.D.

This Class will meet on five days of the week, at 10 A.M.

The course of lectures is arranged to extend over two sessions; and the Class should accordingly be attended in two *consecutive* years.

The lectures for 1890-91 will treat of the principles of Interpretation, and of some portions of New Testament Introduction.

The practical application of the principles of Criticism and Hermeneutics will be illustrated in Exegetical Lectures, and by the reading of portions of the Greek New Testament.

Essays on subjects suggested by the work of the Class are prescribed at intervals during the session, and the progress of

* Dr. M'Turk was assistant and successor to Dr. M'Leod from 6th March, 1797.

the students is further tested by examinations, partly oral and partly written.

Fee for each session, Three Guineas.

Class of New Testament Greek.—This tutorial class is intended for those who are preparing to pass the examination on the *New Testament in Greek* previous to entering the Divinity Hall, and for those who, with a view to the Exit Examination at the close of the Divinity course, desire to extend their knowledge of New Testament Greek. It will be formed only if a sufficient number of students present themselves, and will meet on three days of the week, viz., Tuesday, Wednesday, and Thursday, at 9 A.M. Fee, for students who are attending, or have attended the Class of Biblical Criticism, One Guinea; for others, Two Guineas.

III.—FACULTY OF LAW.

The Faculty of Law embraces the classes of Law (including Scotch Law and Civil Law) and Conveyancing, and also the class of Medical Jurisprudence. In this Faculty there are also Lectureships on Public Law, and on Constitutional Law and History. The Lecturers are appointed for the term of four years.

For the information of students proposing to enter the legal profession, whether as Advocates or as Law Agents, it may be stated that by the regulations of the Faculty of Advocates, every intrant to the Faculty is required to produce evidence of being duly qualified (1) in General Scholarship, and (2) in Law. In General Scholarship the possession of any one of certain University degrees, including the degree of M.A. or LL.B. from a Scottish University, is deemed a sufficient qualification. If the intrant does not hold a qualifying degree he is required to undergo an examination in certain specified branches of General Scholarship, as to which information may be obtained on application to the Clerk of Intrants to the Faculty. On the expiration of a year after the intrant has been found qualified in General Scholarship, his examination in Law may be proceeded with, subject to these conditions: (1) That he shall not during the year before such examination have engaged (except with the sanction of the Dean and his Council, upon special appli-

cation before the year commences) in any trade, business, or profession, either on his own account, or as assistant to or in the employment of another; and (2) that he shall produce evidence of attendance on a certain course of study in Law. The attendance so required is as follows:—(1) attendance during at least one session as a pupil in a class of Scots Law, and a class of Conveyancing, in a Scottish University; (2) attendance during at least one session as a pupil in a class of (a) Civil Law, (b) Public or International Law, and (c) Constitutional Law in a Scottish University or in such other University as may be approved of by the Dean and his Council, and (d) Medical Jurisprudence, in a University, or in a School recognized as qualifying for University Degrees. On the production by the intrant of evidence of his having attended the necessary classes (which he may attend in any order he thinks fit), he is examined (1) on Civil Law, (2) on Private International Law, and (3) on Scots Law. If, however, the intrant has obtained the degree of LL.B. from a Scottish University he is held qualified in General Scholarship and Law without examination or other evidence of qualification, and may at once proceed to what is termed his “Public Examination,” subject to the condition that during the year immediately before presenting his diploma he shall not have been engaged in any trade, business, or profession, as above set forth, except with the previous sanction of the Dean and his Council. The regulations regarding the “Public Examination,” which all intrants, whether graduates or not, must undergo, require that the intrants shall write a Thesis on a Title of the Pandects assigned to him by the Dean, and shall defend it on its being impugned. The question as to the intrant’s admission is then decided by the Faculty voting by ballot.

Admission to the profession of a Law Agent is regulated by the Law Agents Act, 1873, 36 and 37 Vict., c. 63, and by certain relative Acts of Sederunt of the Court of Session, including one dated 20th December, 1873, prescribing rules as to subjects of examination and certain conditions of admission. The Act requires in general that every applicant for admission must have served an apprenticeship of five years with a practising law-agent or with a sheriff-clerk in office at the passing of the Act, which apprenticeship, if entered upon after the passing of the Act, must be served under indenture, recorded

and intimated as the Act requires. In certain cases, however, an apprenticeship for three years is allowed as sufficient, the excepted cases including that of a person holding a degree in Law or in Arts of a University in Great Britain or Ireland granted after examination. The above-mentioned Act of Sederunt provides that (save in certain special excepted cases) no one shall be admitted as an apprentice until he has passed an Entrance Examination by the Examiners appointed by the Court. It also prescribes the subjects of that examination as well as of the examinations in General Knowledge and in Law which (subject also to certain exceptions) every applicant for admission as a Law Agent is required to pass before the same Examiners. An apprentice or applicant for admission is exempted from any entrance examination or examinations in General Knowledge, if (*inter alia*) he holds a degree of any University in Great Britain or Ireland granted after examination, or if he has attended in three separate sessions three separate classes in Arts in any Scottish University (one of such classes being Humanity), and has taken part in the examinations in such classes. Also apprentices and applicants for admission who hold Leaving Certificates granted by the Lords of the Committee of the Privy Council on Education to pupils of Higher Class Schools, are exempted from examination in the subjects which these Certificates cover, Certificates of any Grade being sufficient for the Entrance Examination, but Higher Grade Certificates being necessary for the General Knowledge Examination. By a subsequent Act of Sederunt of 20th July, 1878, it is declared not to be necessary for any applicant for admission who holds the degree of LL.B. or B.L. of any Scottish University to undergo an examination in Law before the Examiners, excepting only on Forms of Process, Civil and Criminal. Again, by an Act of Sederunt, of 4th November, 1886, it is provided that, while it is not necessary for admission as a Law Agent that any applicant shall have attended the classes of Scots Law and Conveyancing in a Scottish University, it shall be in the power of the Examiners, in conducting the examination of any applicant, to take into account whether such applicant has or has not attended such classes.

For Regulations as to Graduation in Law, see Index.

LAW.

This Professorship is in the gift of the Crown. After being long in abeyance for want of revenue, it was revived by the College in 1712, and endowed by Queen Anne in the following year.

Professors.

1714. Wm. Forbes, Advocate.	1842. Allan A. Maconochie,
1746. Wm. Cross, Advocate.	Advocate.
1750. Hercules Lindsay, LL.D.	1855. Geo. Skene, Advocate.
1761. John Millar, Advocate.	1867. Robert Berry, M.A.,
1801. R. Davidson, Advocate.	LL.D., Advocate.
1887. ALEXANDER MOODY STUART, Advocate.	

1. SCOTCH LAW.—The course extends to about 100 Lectures, besides the meetings of the class for examination; and it embraces as full a course of Scotch Law in each session as the time will permit, including, so far as practicable, Lectures on the following subjects:—Sources and Development of the Law of Scotland; the Law of Contracts and Obligations generally, their Constitution and Extinction, Legality and Illegality; the Law of Sale, at Common Law and as affected by Statute; Stoppage *in transitu*; Retention and Lien; Loan; Deposit; Pledge; Hiring, and the Law of Master and Servant; Law of Carriers and Affreightment; Mandate; Partnership; Bills of Exchange; Cautionary Obligations; Marine, Fire, and Life Insurance; Law of Heritage; Servitudes; Prescription as applicable to Heritage; Law of Landlord and Tenant; Succession in Heritage and Moveables, Testate and Intestate; Marriage and Divorce, and the Rights of Husband and Wife; Law of Parent and Child; Guardian and Ward; Actions and Evidence; Diligence and Bankruptcy; Criminal Law, etc.

The text-book recommended to students is Bell's "Principles of the Law of Scotland."

The Class meets five days a week—viz., every day except Monday, from 8 to 9 A.M. At intervals throughout the session the hour is devoted to the ordinary Class examinations, which are conducted in writing.

The Fees for the Class of Scotch Law are £4 4s. for the first year of attendance, £2 2s. for the second, and £1 1s. for the third.

Three Prizes are given by the University for proficiency in the class examinations; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this class and in the class of Conveyancing. Prizes are also given by the Faculty of Procurators, generally for distinction in a special written examination towards the end of the session.

2. CIVIL LAW.—In addition to the Class of Scotch Law, a class of Civil Law will be formed in alternate sessions.

The text-book recommended is Moyle's Institutes of Justinian.

The Fee for the Class is £4 4s.

It is not proposed to form a class of Civil Law in session 1890-91.

CONVEYANCING.

This Chair was instituted by ordinance of the Universities Commissioners, of date 15th June, 1861, which was approved by Her Majesty in Council on 11th October, 1861. The right of appointment to the Chair is vested in the Dean and Council of the Faculty of Procurators, Glasgow.

Professors.

1862. Anderson Kirkwood, LL.D.

1867. Sir James Robertson, LL.D.

1889. JAMES MOIR, Member of the Faculty of
Procurators, Glasgow.

The Course extends to about 100 Lectures, and during the session there are both oral and written examinations. As full a course of Conveyancing is given each session as the time permits. The subjects treated are: (1) Introductory and Preliminary Lectures. (2) The Feudal and Burgage System, the constitution of Feudal and Burgage Rights, and the transmission thereof by Deeds *inter vivos*, or by Judicial Acts. (3) Heritable Securities. (4) Leases. (5) Marriage Contracts, Bonds of Provision, Testamentary Deeds and Deeds of Entail. (6) The completion of Titles, in case of death, to Heritable and Moveable Estate.

The Class meets every day, except Monday, from 8 to 9 A.M.

The text-book recommended is Professor A. M. Bell's Lectures on Conveyancing.

Fees.—First year, £4 4s. ; second year, £2 2s.

Prizes are given for eminence in the Class examinations during the session. Prizes are also given by the Faculty of Procurators for distinction in a written examination held towards the end of the session on some of the subjects of the course; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal portions to the head students of the year in this Class and in the Class of Scots Law.

MEDICAL JURISPRUDENCE.

This Professorship was created by the Crown in 1839.

Professors.

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.
1872. PIERCE ADOLPHUS SIMPSON, M.A. (Cantab.), M.D.

This Course qualifying for graduation in Law (B.L. and LL.B.), extends to upwards of 40 Lectures, and is chiefly devoted to the following medico-legal subjects—viz., Infanticide; Concealment of Pregnancy; Rape; Wounds; Identity; Presumption of Survivorship; General Evidence in Cases of Poisoning; Poisoning by Arsenic; Examination of Blood Stains; Legitimacy; Insanity. The foregoing are the subjects prescribed for examination in the department of Law. The Class will meet in alternate years in the Rooms of the Philosophical Society, 207 Bath Street, on five days a week—viz., Tuesday, Wednesday, Thursday, Friday, and Saturday, at 8.45 A.M., commencing early in April. (*Text-book*—Principles of Forensic Medicine by Guy and Ferrier.)

Fee for the Course, £3 3s. The Course will be given in 1891.

(See under Faculty of Medicine, p. 91.)

PUBLIC LAW.

This Lectureship was instituted by the University in 1878.

Lecturer.

1878. WILLIAM GALBRAITH MILLER, M.A., LL.B., Advocate.

The Course extends to 40 Lectures, and comprises—

1. Some Introductory Lectures on the relation between Jurisprudence and the other branches of Philosophy, and between the different branches of Positive Law. *Text-Book*—Miller's *Philosophy of Law*.

2. A series of Lectures on a period of the History of International Law.

3. A course of tutorial instruction on Public International Law. *Text-Book*—Hall's or Woolsey's *International Law*.

4. A similar course of Private International Law. *Text-Book*—Guthrie's *Savigny's Private International Law*.

Students intending to join the Class are recommended to acquire a general knowledge of the leading events of the modern history of Europe and America. The following books will be found useful: Freeman's *General Sketch of European History*, Doyle's *History of America*, May's *Democracy in Europe*, Flint's *Philosophy of History*, Freeman's *Historical Geography*, Spruner's *Historical Atlas*, Nichol's *Tables of European History*, etc.

Students who have not attended the Moral Philosophy Class are recommended to study such works as Sidgwick's *Methods of Ethics*, Bradley's *Ethical Studies*, or Green's *Prolegomena to Ethics*, or his *Lectures on the Principles of Political Obligation* contained in his *Philosophical Works* (vol. ii.).

The Class meets in the Faculty Hall, St. George's Place, during the Winter Session, on Mondays and Thursdays, at 5.30 P.M. It meets in alternate winters, alternating with the Civil Law Class. It is proposed to form a Class in Public Law in session 1890-91.

Class Fee—First year, £3 3s. ; second year, £1 11s. 6d.

CONSTITUTIONAL LAW AND HISTORY.

This Lectureship was instituted by the University in 1878.

Lecturers.

1878. Charles Scott Dickson, M.A., Advocate.

1878. Alexander Ure, M.A., LL.B., Advocate.

1889. ROBERT T. YOUNGER, M.A., LL.B., Advocate.

The Lectures will be partly Doctrinal and partly Historical. They will embrace chiefly the subjects discussed in the text-books prescribed for those who propose taking the degrees of B.L. and LL.B. In the Doctrinal Lectures the following subjects will be treated of:—The Crown; the Cabinet; the House of Lords; the House of Commons; Local Government. The Historical Lectures will cover the period from the Norman Conquest to the present reign. Examinations, in writing on the Lectures, and *viva voce* on subjects to be prescribed by the Lecturer, will take place at short intervals throughout the session.

The Class will meet in alternate years during the Summer Session in the Faculty Hall, St. George's Place, five days a week, viz. :—On Monday, Tuesday, Wednesday, Thursday, and Friday, at 5.30 P.M. Fee for the course, £3 3s.

The Class will meet in the Summer Session of 1890.

IV.—FACULTY OF MEDICINE.

The Faculty of Medicine embraces the classes of Practice of Medicine, Anatomy, Natural History, Surgery, Midwifery, Chemistry, Botany, Materia Medica, Institutes of Medicine, Medical Jurisprudence, Clinical Surgery, Clinical Medicine, and Pathology, on all of which attendance is required for the Degree of M.B. To this Faculty also belong the Lectureship on Diseases of the Eye, the Lectureship on Insanity, and the Courses of Instruction necessary for the Diploma in Public Health.

PRACTICE OF MEDICINE.

This Professorship, created in 1637, but long suppressed for want of revenue, was revived by the College in 1712, and

endowed by Queen Anne in the following year. It is in the gift of the Crown.

Professors.

1714. John Johnstoun, M.D.	1789. Thomas C. Hope, M.D.
1751. William Cullen, M.D.	1796. Robert Freer, M.D.
1756. Robert Hamilton, M.D.	1827. Charles Badham, M.D.
1757. Joseph Black, M.D.	1841. William Thomson, M.D.
1766. Alex. Stevenson, M.D.	1852. John M'Farlane, M.D.
1862. WILLIAM TENNANT GAIRDNER, M.D., LL.D.	

The course is directed to the exposition of the Healing Art in its more practical aspects, having regard especially to those general principles and doctrines which are more directly available at the bedside of the sick. It is the object of the Lecturer to enforce these principles from a variety of points of view, rather than to give a complete synopsis annually of the individual details of practice in all departments. He is, therefore, in the habit of varying the arrangement of the course from year to year, in order that the mind of the student may be brought to bear upon different aspects of the subject with sustained and renewed attention. In 1890-91 the first part of the course will be occupied with the leading, and mostly the Chronic, Constitutional Diseases,—*e.g.*, Atrophy, Anæmia, Scurvy, Diabetes, Gout, Rheumatism, etc.; Tubercle and Syphilis will also be discussed, and, in connection with the latter, certain Diseases of the Skin. In the early part of the course, up to Christmas, instruction will be given, partly in lectures and partly in the tutorial classes, on the elements of Physical Diagnosis—*i.e.*, Auscultation and Percussion, etc., with reference chiefly to Chest Diseases, so as to constitute a preparation for hospital and dispensary work. Diseases of the Respiratory Organs will next engage attention, and afterwards Diseases of the Nervous System. Professor Gairdner proposes to lecture in summer 1890* chiefly on the Diseases of the Abdomen, including Diarrhœal Diseases and Epidemic Cholera, which will also form a part of the tutorial class work of next winter session, although not included in the lectures.

* The Class will meet on Tuesdays and Thursdays, and will be open to all matriculated students of the University who have completed their second winter of medical study. It will, however, be distinct from Dr. Gairdner's Clinical Class at the Western Infirmary, which will be held as usual in summer.

The text-book of Dr. Bristowe is particularly recommended to be read along with the summer course, and with reference to the tutorial work of next winter. The course will be illustrated by drawings, wax casts, models, and preparations of morbid Anatomy; and the Lecturer will also refer to the cases under his care in the Infirmary, and, in general, will lead the student to look to his Hospital practice as the evidence in detail of what is stated in the class-room. Professor Gairdner conducts at the Western Infirmary part of the Clinical Instruction given to the medical students connected with the University.

Text-Books.—Those most generally used in the Class are :—Bristowe's Theory and Practice of Medicine, last edition; Finlayson's Clinical Manual for diagnosis and hospital work; and Tanner's Index of Diseases (for reference to remedies and formulæ). The following well-known systematic treatises, however, are also recommended, and may be used by those who prefer them, viz. :—The recently published "Principles and Practice of Medicine," by the late Dr. Fagge (London, 1886); Tanner (the larger work including the smaller index), Frederick Roberts, Niemeyer, (American translation), Austin Flint, Principles and Practice of Medicine, 1886, 6th edition. Aitken's "Science and Practice of Medicine" will be found specially useful by those who intend to enter the Army or Navy Medical Service. Graham Brown's, also Fenwick's Treatises on Medical Diagnosis, and Gee on "Auscultation and Percussion," are smaller and more special works, which will be found very serviceable. A still more recent, and excellent, Text-book on Physical Diagnosis is that of Drs. Gibson and Russell, of Edinburgh. The Professor's "Clinical Medicine" (1862) is out of print, but will be found in the Reading-Room, and may be used for occasional reference.

ANATOMY.

This Professorship, with which Botany was at first associated, was founded in 1718 by the Crown and College jointly. A separate Professorship of Botany was established in 1818, a distinct lectureship on that branch having existed for a considerable time previously.

Professors.

1720. Thomas Brisbane, M.D.	1781. William Hamilton, M.D.
1742. Robert Hamilton, M.D.	1790. James Jeffray, M.D.
1756. Joseph Black, M.D.	1848. Allen Thomson, M.D.,
1757. Thos. Hamilton, M.D.	LL.D., F.R.S.
1877. JOHN CLELAND, M.D., LL.D., D.Sc., F.R.S.	

Demonstrators.

John Yule MacKay, M.D.
 Robert B. Young, M.A., M.B., C.M.
 Andrew M. Ramsay, M.B., C.M.
 John Robertson, M.A., M.B., C.M.

In the WINTER SESSION, Anatomical Instruction is conducted in the following courses, viz. :—

1. **ELEMENTARY DESCRIPTIVE LECTURES.**—This Class meets on five days weekly, from 2 to 3 o'clock. The lectures comprehend a full systematic description of the Bones, Joints, Muscles, and Muscular Organs, and a general view of the Nervous System, and Viscera.

2. **ADVANCED DESCRIPTIVE LECTURES AND DEMONSTRATIONS.**—This Class meets on six days weekly, from 11 to 12 o'clock, viz., on five days for lecture, and on Saturday for Microscopical Demonstrations. The course comprehends: 1st, Demonstrations of Regional or Topographical Anatomy, including the Distribution and Relations of the Blood-Vessels and Nerves; 2nd, Histology and a Detailed Description of the Viscera, Brain, and Organs of Sense.

3. **PRACTICAL ANATOMY, or DISSECTIONS** made by the students, under the superintendence of the Professor and Demonstrators. The rooms are open from 9 A.M. to 4.45 P.M. daily, except on Saturdays when they close at mid-day.

Text-Books.—Quain's Anatomy, or Gray's Anatomy in conjunction with Turner's Introduction to Human Anatomy; Ellis's Demonstrations; Cleland's Directory for Dissection.

In the SUMMER SESSION, the rooms for Practical Anatomy are open from 8 A.M. to 3 P.M. daily. Demonstrations on Surgical and Topographical Anatomy, as well as lectures on Embryology and other of the higher branches of Anatomy, are delivered regularly, and are free to members of the Practical Class. Elementary Instruction for beginners is also provided.

NATURAL HISTORY.

This Professorship was founded by George III., in 1807. The Professor is appointed by the Crown. In 1876 Mrs. Honyman Gillespie of Torbanehill, endowed a Lectureship in Geology, to be called the "Honyman Gillespie Lectureship," in memory of her husband, W. Honyman Gillespie, Esq. The Professor of Natural History is the present Lecturer.

Professors.

1807. Lockhart Muirhead, LL.D.

1829. William Couper, M.D. | 1857. Henry D. Rogers, LL.D.
1866. JOHN YOUNG, M.D.

Honyman Gillespie Lecturer.

1876. JOHN YOUNG, M.D.

The arrangements for the ensuing year are as follow :

1. A course of Lectures on Zoology, daily at 1 p.m., beginning in October.

2. A course of Lectures on Geology, daily at 1 p.m., beginning in January.

3. A course of Lectures on Zoology at 12 noon, beginning in May.

4. Lectures on Embryology during the winter and summer Sessions by Robert Kennedy, M.A., B.Sc., George A. Clark Scholar.

5. Twenty Demonstrations in the winter session and twenty Demonstrations in the summer session by Benjamin G. Cormack, B.Sc., William Baxter Demonstrator in Geology. (See page 95.)

Practical Instruction in Zoology will be given in the Zoological Laboratory during the winter and summer sessions by the Professor, with the assistance of Robert Kennedy, B.Sc. A copy of the Laboratory regulations may be obtained from the Laboratory attendant.

The Professional Examinations in October, 1890, will have special reference to the *Protozoa*, *Crustacea*, and *Aves*; those in April, 1891, to the *Mammalia*, *Insecta*, and *Echinodermata*.

SURGERY.

This Professorship was founded in 1815, and is in the gift of the Crown.

Professors.

1815. John Burns, M.D.

1850. James A. Lawrie, M.D. | 1860. Joseph Lister, M.B., F.R.S.

1869. SIR GEORGE H. B. MACLEOD, M.D., F.R.S.E.

The Professor delivers during winter a course of lectures on the Principles and Practice of Surgery, and in summer conducts a course of Operative Surgery. He also conducts at the Western Infirmary part of the Clinical Instruction given to the Medical Students connected with the University.

GENERAL OUTLINE OF COURSE.

- I. History of Surgery.
- II. Maladies common to all the Tissues and Organs.
 - (a) Inflammation and its consequences.
 - (b) External Injury.
 - (c) Virulent Affections.
 - (d) Tumours.
- III. Maladies of Special Tissues and Organs.
- IV. „ „ of Regions.
- V. Principles of Surgical Diagnosis.
- VI. Operations.

MIDWIFERY.

This Professorship was founded by George III. in 1815. The Professor is appointed by the Crown.

Professors.

1815. James Towers, M.D.

1820. John Towers, C.M.

1834. William Cummin, M.D.

1833. Robert Lee, M.D.

1840. John M. Pagan, M.D.

1868. WILLIAM LEISHMAN, M.D.

The Lectures embrace the Theory and Practice of Midwifery and the Diseases of Children. The Professor was *ex officio* Physician to the University Lying-in Hospital and Dispensary, an institution which was many years ago established in the

neighbourhood of the old College. The altered circumstances of the school having, however, rendered this institution unavailable for Clinical instruction, other arrangements have now been made by which the Managers of the Western Infirmary have placed a ward for the Diseases of Women under the charge of the Professor. Ample opportunity is afforded for Clinical instruction in Midwifery at the Glasgow Maternity Hospital, to which the Professor holds the appointment of Consulting Physician.

A course of lectures on the Diseases of Women is delivered in summer.

CHEMISTRY.

This Professorship was founded by George III. in 1817, previous to which time (from 1747) there were Lecturers on Chemistry appointed by the University. The Professor is appointed by the Crown.

Lecturers.

1747. William Cullen, M.D.	1769. William Irvine, M.D.
1756. Joseph Black, M.D.	1787. Thomas C. Hope, M.D.
1766. John Robison, LL.D.	1791. Robert Cleghorn, M.D.

Professors.

1818. Thomas Thomson, M.D.	1852. Thomas Anderson, M.D.
1874. JOHN FERGUSON, M.A., LL.D., F.S.A.	

Assistants.

Geo. G. Henderson, M.A., D.Sc. | James Stanley Muir, B.Sc.

Lectures on Systematic Chemistry.

The Lectures of this course are delivered daily at 10 A.M. during the Winter Session. They commence with the discussion of the General Principles of Chemical Philosophy, the Non-Metallic and Metallic Elements and their compounds are then treated of, and the latter part of the Course is devoted to the subject of Organic Chemistry.

Tutorial Classes.—In addition to attendance at the lectures, the students are required to attend the tutorial classes, each of which meets twice a week, either at 9 A.M. or 3 P.M. In these classes additional instruction, by means of oral examination and written exercises, is given.

Written examinations of the whole class are held at intervals during the session.*

Analytical Chemistry.

The Laboratory is open daily during the Winter and Summer Session from 10 A.M. to 4 P.M., for instruction in Chemical Analysis and the application of Chemistry to Medicine and the Industrial Arts. Each student works independently. He is supplied with a table, gas, re-agents, etc., and goes through a regular series of analytical experiments of gradually increasing difficulty, until he is capable of performing a complete analysis. The more advanced students engage in original investigation.

Fee for the Winter Session, £10 10s.; for the Summer Session, £5 5s.

Practical Chemistry.

This Course, which is intended for Medical Students, is given during the Summer Session. It treats of the methods of testing the different bases and acids, the detection of poisons, and the preparation of the more important Pharmaceutical compounds.

Attendance on the course of Chemistry being required for the Certificate in Engineering Science, and for the degree of B.Sc., the attention of students is directed to the following points. It will be found of great advantage to attend the Laboratory course as well as the Lectures, and care should be taken to arrange the classes in such a manner as to leave an interval for study between the conclusion of the Chemical Classes and the Degree Examination.

The Senate have resolved that "Hereafter no candidate for a Certificate in Engineering Science shall be admitted to examination in the Department of Chemistry who has not attained to the value of 50 per cent. for his written exercises in the class."

For the "Malcolm Kerr," the "Metcalf," the "George A. Clark" Bursaries, the "John Clark (Mile-end)" Scholarships, the "Breadalbane" Scholarships, the "Donaldson" Scholar-

* Arrangements are making by which short courses of from 12 to 20 or 25 Lectures on some special or advanced subject will be delivered during the Session. The subjects of these courses will be announced from time to time.

It is proposed to give Lectures next Session on some of the Subjects connected with the B.Sc. Degree, and also a course of Lectures on the earlier period of Modern Chemical History.

ships, and the "Mackay Smith" Scholarship, in connection with Chemistry, see under "Bursaries" and "Scholarships."

BOTANY.

This Professorship was founded in 1818. The appointment is vested in the Crown. (See page 111, as to Botanic Garden.)

Professors.

1818. Robert Graham, M.D.	1845. G. A. Walker-Arnott, LL.D.
1821. Sir W. J. Hooker, LL.D.	1868. Alexander Dickson, M.D.
1841. John H. Balfour, M.D.	1879. I. B. Balfour, M.D., D.Sc.
1885. FREDERICK O. BOWER, D.Sc.	

Lectures are given at the College every Tuesday, Wednesday, Thursday, Friday, and Saturday, at 8 A.M., during the months of May, June, and July. On Saturdays, according as the season and the weather permit, either excursions are made for the study of plants in the fields or microscopic demonstrations are given in the Laboratory.

Demonstrations are given in the Botanic Garden or at the College during June and July.

The Botanical Laboratory at the College is open daily from 9 A.M. to 4 P.M. from the beginning of May to the end of July. Classes for elementary practical work in the Botanical Laboratory are formed during these months at hours, so far as practicable, to suit the convenience of students.

A more extended course of Practical Instruction, designed for candidates for the Science Degree, or other more advanced students, is held in the Laboratory in the months of January, February, and March. A course of advanced Lectures is also given during those months.

The University Herbarium may be consulted by students on applying to the Professor.

Students in the Botanical Class receive a ticket of admission to the Botanic Garden, and may obtain, by applying to the Professor, specimens of plants for private study.

Fees for the Class :—First Course, £3 3s. Second Course, £2 2s. Third Course, £1 1s. For the Botanical Laboratory (either the elementary or the advanced course), £2 2s.

For particulars as to the "Dobbie-Smith" Gold Medal, see under "Prizes."

MATERIA MEDICA.

A Lectureship on this branch was founded by the College in 1766, and a Professorship created by the Crown in 1831.

Lecturers.

1766. William Irvine, M.D.	| 1788. Richard Cleghorn, M.D.
1787. Thomas C. Hope, M.D.	| 1791. Richard Millar, M.D.

Professors.

1831. Richard Millar, M.D.	| 1855. John A. Easton, M.D.
1834. John Couper, M.D.	| 1865. John B. Cowan, M.D.
1880. MATTHEW CHARTERIS, M.D.	

The instructions in Materia Medica comprise a Winter Course devoted to the action of remedies and the treatment of disease by medicines, climate, and diet. In the Summer Course, which it is advisable to take before the Winter one, the instructions are on the official preparations of Materia Medica and Practical Pharmacy. At the third professional examination, written and oral questions on both subjects will be submitted to candidates.

INSTITUTES OF MEDICINE, OR PHYSIOLOGY.

This Professorship was founded by Her Majesty, Queen Victoria, in the year 1839.

Professors.

1839. Andrew Buchanan, M.D.
 1876. JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S.,
 F.R.S.E., F.R.C.P.E.

Senior-Assistant.

Joseph M'Gregor Robertson, M.A., M.B., C.M.

Muirhead Demonstrator.

William Snodgrass, M.A., M.B., C.M.

SYSTEMATIC LECTURES.

The Lectures of this course are delivered daily at 12 noon during the Winter Session. They are devoted to an exposition of the main principles and facts of the Physiology of man.

1. *General Physiology*, which includes a description of the functions of the various tissues, and of the chemical reactions which occur in the living body.

2. *Special Physiology*, or the functions of organs and systems of organs. This division of the subject includes (1) nutrition, (2) animal movements, (3) innervation, and (4) reproduction.

Demonstrations.—A series of demonstrations (once a week) is given by the Muirhead Demonstrator on the applications of Physics to Physiology, and more especially the electrical phenomena of muscle and nerve, and the applications of electricity in physiology and medicine.

4. *Written Exercises* are given, and written and oral examinations are held during the session.

PRACTICAL PHYSIOLOGY.

During the *Summer Session*, practical instruction is given in the Laboratory, by the Professor and Assistants, to classes of not more than thirty students in each class, at such hour or hours as may be found convenient. This course includes :—(1) Instruction in the use of the microscope, and in the microscopical examination of the various tissues with the aid of modern methods of hardening, staining, injecting, and mounting preparations. (2) The analysis of the principal fluids of the body, with special reference to the physiological processes by which they are produced. (3) The modes of observing and recording physiological phenomena. Students will be instructed in the use of physiological apparatus, and will have the opportunity of acquiring information which cannot readily be communicated in systematic lectures. Fee, £3 3s.

Candidates for the degree of B.Sc. will have special facilities for Laboratory work *during the Winter Session*. They are requested to communicate with Dr. M'Kendrick on or before 3rd November.

The Laboratory.

The Laboratory is open daily from 10 A.M. to 4 P.M., under the superintendence of the Professor, to whom application should be made by those who may wish to pursue original investigation. It is furnished with the most modern appliances both for research and for the illustration of lectures on Physiology.

Text-Books.

For the Systematic and Practical Classes—*Text-Book of Physiology*, 2 vols., by Dr. M'Kendrick.

For the Practical Class—*The Elements of Physiological Physics*, by J. M'Gregor-Robertson, M.B., C.M.

As to the Muirhead Demonstratorship of Physiology see p. 93.

MEDICAL JURISPRUDENCE.

This Professorship was created by the Crown in 1839.

Professors.

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.

1872. PIERCE ADOLPHUS SIMPSON, M.A. (Cantab.), M.D.

The lectures on Forensic Medicine are intended to elucidate the application of Medical Science to judicial proceedings, whether civil or criminal.

The first part of the course is occupied with Medical Evidence as bearing on personal injuries, including Poisoning. This is followed by questions connected with the Sexual Functions, and questions relating to Bodily and Mental Soundness.

In addition to oral examinations, subjects are prescribed for written exercises; and in the department of Toxicology facilities are afforded for students desirous of becoming practically acquainted with the tests for poisonous substances, and the processes for separating these from organic mixtures.

N.B.—*The Lectures on Forensic Medicine are delivered during the Summer Session daily at 11 a.m. (See under Faculty of Law.)*

CLINICAL SURGERY.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

Professor.

1874. GEORGE BUCHANAN, M.A., M.D., LL.D.

The Professor teaches Clinical Surgery by "Lectures and other instruction" on the cases of patients affected with injuries, diseases, etc., requiring Surgical treatment. There is a Summer as well as a Winter Course.

CLINICAL MEDICINE.

This Professorship was founded by the University in May, 1874. The Professor is appointed by the University Court.

Professor.

1874. THOMAS M'CALL ANDERSON, M.D.

The Professor teaches Clinical Medicine by "Lectures and other instruction" on the cases of patients requiring Medical treatment. There is a Summer as well as a Winter Course.

IV.—LECTURESHIPS, DEMONSTRATORSHIPS, ETC.

THE ARNOTT AND THOMSON DEMONSTRATORSHIP IN EXPERIMENTAL PHYSICS.

This Demonstratorship was founded in 1875 by the liberality of Sir William Thomson and Mrs. Arnott, widow of Dr. Neil Arnott, founder of the Arnott Prizes, who invested respectively £2,000 and £1,000 for the purpose of encouraging the study of Experimental Physics in the University of Glasgow. The Demonstratorship is in connection with the Physical Laboratory of the University. The holder is appointed annually by the Professor of Natural Philosophy, subject to the approval of the University Court, and his duties are to perform, and direct in the performance of, experimental researches in the Physical Laboratory, in connection with, and under the direction of, the Professor of Natural Philosophy, to give practical laboratory courses suitable for Medical and Engineering students, and to take part in the teaching of the Natural Philosophy Class, if required by the Professor, and in such way and at such times as may be appointed by the Senatus Academicus of the University.

Demonstrator.

1875. JAMES THOMSON BOTTONLEY, M.A., F.R.S.

GIFFORD LECTURESHIP ON NATURAL THEOLOGY.

This Lectureship, as well as similar Lectureships in the other Scottish Universities, was founded in 1887 in accordance with the Trust Disposition and Settlement of the late Adam Gifford, sometime one of the Senators of the College of Justice, Scotland. Lord Gifford directed his Trustees to pay over to the Senatus Academicus of the University of Glasgow the sum of Twenty Thousand Pounds for the purpose of establishing a Lectureship or Popular Chair for promoting, advancing, and diffusing the study of Natural Theology, in the widest sense of that term—in other words, "the Knowledge of God, the

Infinite, the All, the First and Only Cause, the One and the Sole Substance, the Sole Being, the Sole Reality, and the Sole Existence, the Knowledge of his Nature and Attributes, the Knowledge of the Relations which men and the whole universe bear to Him, the Knowledge of the Nature and Foundation of Ethics or Morals, and of all Obligations and Duties thence arising." The Senate are the Patrons. The Lecturer is appointed for a period of two years and no longer, but the same Lecturer may be reappointed for other two periods of two years each, provided that no one person shall hold the office of Lecturer in this University for more than six years in all. The Lecturer is subjected to no test of any kind, and he is not required to take any oath, or to emit or subscribe any declaration of belief, or to make any promise of any kind. The Founder expressed a wish that the subject should be treated as a strictly natural science, like astronomy or chemistry. Matriculated Students and others may attend the Lectures.

1888. Professor MAX MÜLLER.

PUBLIC LAW, see p. 79.

CONSTITUTIONAL LAW AND HISTORY, see p. 80.

DISEASES OF THE EYE.

This Lectureship was instituted by the University in 1828. Great advantages are offered to students for the study of this branch of practice by the Lecturer being one of the Surgeons of the Glasgow Eye Infirmary.

Lecturers.

1828. William M'Kenzie, M.D. | 1868. George Rainy, M.D.

1869. THOMAS REID, M.D.

Waltonian Medical Lectureship.

Founded in 1788 by Rev. Dr. William Walton, of Upton, in the County of Huntingdon, who bequeathed to the Senate for its support the sum of £1,000, which has been increased by subsequent accumulations to £2,650. It is at present held by DR. THOMAS REID, who is also lecturer on Diseases of the Eye.

THE MUIRHEAD DEMONSTRATORSHIP OF PHYSIOLOGY.

In December, 1876, Dr. Henry Muirhead, of Longdales, Bothwell Parish, presented to the University the sum of

£2,100, and in November, 1879, a further sum of £400 to endow a Demonstratorship of Physiology in connection with the Chair of Institutes of Medicine—the main object being the promotion of medical science by the training of young men of suitable capacity to become teachers and investigators of Physiology. The regulations with reference to the appointment are as follows :—

1. That the title of the appointment be “The Muirhead Demonstrator of Physiology.”

2. That the holder of the office shall act as an assistant to the Professor of Institutes of Medicine in teaching the classes of Systematic and Practical Physiology and in original investigation.

3. That he shall also be expected and encouraged to engage in independent scientific investigation under the direction of the Professor.

4. That he will not be entitled to conduct any class on his own account without the consent of the Professor.

5. That the incumbent will be expected to devote his entire time to the duties of the appointment.

6. That the appointment be made annually by the Senatus Academicus, with the consent of the University Court, on the recommendation of the Professor of the Institutes of Medicine, who shall furnish evidence to the Senatus of the suitability of the person recommended by him.

Present Demonstrator.

WILLIAM SNODGRASS, M.A., M.B., C.M.

INSANITY.

This Lectureship was instituted by the University in 1880. Great advantages are offered to students for the study of this subject by the Lecturer being the Superintendent of the Royal Lunatic Asylum, Gartnavel.

Lecturer.

1880. DAVID YELLOWLEES, M.D., LL.D.

A Course of Lectures is given in the University at 12 noon on Wednesdays during the summer session, and Clinical Instruction at the Asylum, Gartnavel, at 10 A.M. on Saturdays. Fee for the combined course, £2 2s.

For the Mackintosh Mental Science Bursary in connection with this class see “Bursaries.”

THE WILLIAM BAXTER DEMONSTRATORSHIP IN GEOLOGY.

This Demonstratorship was founded by the Trust Disposition and Settlement of Mr. William Baxter, Hillhead, Glasgow, who died on 20th November, 1888, and bequeathed to the Senate the sum of £2,500, free of legacy duty, the annual income of which, less the cost of management, he directed should be paid half-yearly to the Demonstrator on the joint certificate of the Clerk of Senate and the teacher of Geology for the time being. The Senate are the patrons of the Demonstratorship.

The following Regulations, drawn in terms of the Founder's will, were adopted by the Senate on 28th February, 1889:—

1. The Demonstratorship shall be held for three years, and shall be open to the candidate who in the three years intervening between each appointment shall have passed the Degree of B.Sc. with honours, or, in the event of several candidates obtaining honours, to the candidate whose aggregate marks for the whole subjects of the said degree are the highest; but in the event of no candidate attaining to honours, the Senate may, if they see fit, award the Demonstratorship to the candidate who shall stand highest in the list, provided his average of marks over all the said subjects is not less than 70 per cent., but any candidate who fails to obtain at least 70 per cent. of marks in the Department of Geology shall *eo ipso* be disqualified to hold the Demonstratorship.

2. The three years' tenure of office shall be subject to the condition that the incumbent discharges the duties of the office to the satisfaction of the Senate, who have power "to deprive any Demonstrator of his stipend, or a part thereof, should they at any time become dissatisfied with his conduct or his ability to carry out the duties of his office, or with the character of his lectures, or for any other reason they may consider sufficient," the Demonstrator having the right of appeal to the University Court in the event of such deprivation.

3. The duties of the Demonstrator shall be:—

(1) To deliver two Courses of Lectures—twenty in the winter, twenty in the summer session—(a) on Mineralogy and Petralogy, or (b) on Palæontology, or (c) on Physical Geography. These Lectures to be accompanied by Demon-

strations on specimens selected from the Hunterian collections with the consent of the Keeper.

(2) To give Field Demonstrations of Geology and Petralogy, under the direction of the Professor of Natural History (or of Geology when that Chair shall be founded).

(3) To carry on original work in any department of Geological Science which he may select, obtaining therein such assistance by specimens as the Keeper of the Museum shall find it in his power to give.

4. These Courses of Lectures may be attended (*a*) by matriculated students of Geology, free; (*b*) by any matriculated student not a member of the class of Geology, on payment to the Demonstrator of a fee of £1 1s. for each course, or such higher fee as the University Court may fix; (*c*) by any member of the Geological Society of Glasgow on payment of five shillings in lieu of matriculation fee for the winter or summer session, in addition to the authorized class fee.

5. In the event of no appointment being made, or of the Demonstrator resigning, retiring, or being deprived, the revenue accruing during the period of vacancy shall be added to the capital, and the annual income thereof to the stipend payable to the Demonstrators.

The first appointment was made in April, 1889; the next in ordinary course will be made in April, 1892, on the results of the examinations for B.Sc., which shall be held between May, 1889, and April, 1892.

Demonstrator—BENJAMIN G. CORMACK, B.Sc.

GERMAN LITERATURE.

In 1887 the Senate instituted a Lectureship on German Literature. Dr. Georg Fiedler has been appointed Lecturer for session 1890-91. He will deliver two courses of twelve lectures each. The first course will be delivered in German, beginning in the middle of November; the second will be delivered in English, beginning in the middle of January, 1891. The subject of both courses will be Goethe's Life and Works. Fee for the two courses, One Pound; for either course, Fifteen Shillings. Non-matriculated students

may attend either or both courses on payment of a University Fee of Five Shillings in addition to the authorized class fee.

V.—LIBRARIES, MUSEUM, BOTANIC GARDEN.

UNIVERSITY LIBRARY.

The University Library was founded in the fifteenth century. It contains an extensive and valuable collection of books. The Library is under the management of a Committee appointed annually from the members of Senate. The Librarian is elected by the Senate.

The Library is always increasing by donations and by a grant of £707 per annum from the Treasury, as compensation for the loss of the Stationers' Hall privilege.

During recent years the Library has acquired several valuable collections. Amongst these the most important are the following :—

The Collection bequeathed to the University by the late W. EUING, Esq., amounting to about 15,000 volumes. It contains many books printed in the fifteenth and sixteenth centuries, illustrated books, English literature, Classics, above 2,000 Bibles, and a very large number of Psalm and Hymn books.

The Library of the late SIR WILLIAM HAMILTON, Professor of Logic in the University of Edinburgh, amounting to about 8,000 volumes. This collection, which consists principally of Classics, editions of Aristotle, and treatises on Logic and Metaphysics, was purchased by private subscription and presented to the University. A list of the Subscribers was inserted in the Calendar for 1879-80.

The WALKER-ARNOTT Botanical Library of 970 volumes.

The Musical Library of the late THOMAS L. STILLIE, Esq., numbering 760 volumes. It contains the works of the chief composers, many of them in score, and an extensive series of modern operatic compositions, continental and English.

The works on Mining belonging to the late ALEX. MACDONALD, Esq., M.P.

Works on Engineering from the libraries of the late Professors LEWIS GORDON and MACQUORN RANKINE; works on Oriental literature from the library of the late Professor WEIR; a large collection of medical works, theses, and pamphlets, from the late Professor ALLEN THOMSON; 800 volumes of general literature from the library of the late F. A. ECK, Esq.; and numerous works of reference for the Reading Room from ALEX. B. M'GRIGOR, Esq., LL.D.

Wall or table cases were given by William S. Dixon, Esq. (1); William Euing, Esq. (1); Professor Rainy, M.D. (1); Professor Sir James Robertson, LL.D. (2); and Alex. White-law, Esq., M.P. (2)

The following are the principal regulations relative to the use of the Library by the various classes of readers:—

Each Member of the Senatus Academicus is entitled to have in his possession at one time twenty-five volumes, but not more.

Retired Principals and Professors are entitled to have in their possession at one time ten volumes, but not more.

Any Assistant to a Professor, or Examiner for Degrees, to whom the Senatus Academicus shall think it expedient to grant the privileges of the Library, is entitled to have in his possession at one time ten volumes, but not more.

Each Member of the General Council is entitled, in each year in which he shall have paid a subscription to the Library of Ten Shillings and Sixpence, to have in his possession at one time four volumes, but not more. The annual subscription may be compounded for by a single payment of Five Guineas. In the case of a Member of the General Council, the year commences at 15th October.

Every person in each of the foregoing classes is entitled to retain each book for one month from the date of borrowing during the Winter Session, and for two months from the date of borrowing during Summer, and is further, after the expiration of such period, entitled to retain each book until the annual period of inspection, unless notice shall be received from the Librarian requiring the return of such book.

Every Matriculated Student enrolled in a Class is entitled, on lodging with the Librarian a deposit of One Pound, to have in his possession three volumes (in Summer, four volumes) at one time, and to retain any book for two weeks (in Summer, four weeks) from the date of borrowing; and further, to re-borrow any book for successive periods of two weeks (in Summer, four weeks), unless application for it shall, in the meantime, have been made by another person entitled to the use of the Library.

No reader is entitled to borrow books in more than one capacity, *e.g.*, as a Student and as a Member of the General Council.

If any book, by whomsoever borrowed, be not returned within three days after notice shall be sent by the Librarian requiring the return of such book, a penalty of One Shilling a volume is incurred, and a further penalty of Sixpence a volume for each day so long as the book is not returned, until the full amount of the fine shall exceed the sum for which the book can be replaced in the Library.

The Librarian is entitled to have in his possession at one time ten volumes, but not more; and any Assistant-Librarian, to whom the Senatus Academicus shall think it expedient to grant the privilege of the Library, shall be entitled to have in his possession at one time four volumes, but not more; provided always that all books borrowed by the Librarian or by any such Assistant-Librarian as aforesaid shall be duly and regularly entered in the ordinary Record of the Library as being borrowed, in the same manner as books borrowed by other persons.

The Senatus Academicus may grant the use of the Library to such extent, and on such conditions as they shall think expedient, to persons for purposes of literary research, and that whether such persons shall be members of the University or not; provided always that no such privilege shall in any case be granted except by Minute of the Senatus specifying the grounds on which the grant is made, and the conditions which have been attached thereto, an extract of which Minute shall be forthwith transmitted to the University Court; provided also that all such persons shall pay a Subscription to the Library of Ten Shillings and Sixpence for the current year.

All grants of the use of the Library made by the Senatus Academicus, in pursuance of the preceding section, shall terminate at the annual period of inspection of the Library, but shall be renewable under like conditions, if again applied for on the expiration of that period.

Books belonging to the Library must not be privately transferred from one reader to another; and must not be lent to Graduates or Students who are not readers.

The Librarian is strictly forbidden to send books by a public conveyance, or do more than deliver books over the counter to a person properly authorized to receive them; and he is empowered, if he think fit, to decline to give out books to any one other than the reader applying in person.

The following classes of books are not given out except on an order signed by three members of Committee:—Manuscripts, Specimens of early typography, Works containing valuable engravings, Dictionaries and other works of reference (unless there is a duplicate in the Library), Maps of a larger size than 20 inches in height and breadth, loose Maps, unbound Music, Works with loose plates or loose letterpress, Rare Books, or Books in any way difficult to replace, Pamphlets, stitched Parts of large works, or Books not sufficiently protected by the binding.

A general inspection of the Library, and of the Record of the borrowing and returning of the books, takes place annually in April, beginning with the 15th and ending with the 22nd.

During the period of the annual inspection, the Library is closed, and all works whatsoever, and by whomsoever borrowed, must be returned to the Library before the commencement of such period, under a penalty of not less than One Shilling a volume; and in the event of any volume not being returned before the expiration of one week after the last day of the inspection, the fine is repeated weekly, until such volume is returned, or until a copy of the work of the same edition, and of equal value, shall at the expense of the borrower be placed in the Library in its stead.

So long as any person shall remain in possession of a book which he is not entitled to retain, or shall allow any fine incurred by him to remain unpaid, the right of such person to borrow or retain any books whatsoever, or to exercise any of the privileges of the Library, is suspended, and remains in abeyance.

Each person returning a book to the Library must see that the book is marked as returned opposite the corresponding entry in the Receipt Book. For every borrower is liable to replace any volume entered in the Receipt Book in his name and not so marked as returned.

The Librarian is instructed forthwith to report to the Library Committee all cases in which he shall find that books have been mutilated, disfigured by writing on the margin, or otherwise injured while in the possession of readers; and persons guilty of such offences shall be liable to replace the injured books, and shall be fined or suspended from the privileges of the Library at the discretion of the Committee.

All readers borrowing books from the Library must obtain them from, and return them to, the Assistant-Librarians in the ante-room on the days and during the hours when the Library is open.

Persons other than students who wish to consult books in the Library will be accommodated in the First Bay of the Lower Hall. Each person must enter his name and address, and the title of the work or works which he desires to consult, in a book kept for that purpose.

Visitors on giving their names will be conducted over the Library by an attendant. They are not permitted to enter the Reading-Room during the hours when it is open to students.

No person, except Members of Senate, shall otherwise be admitted to the interior of the Library without the special permission of the Curator or Librarian.

All persons, whether readers or visitors, are strictly prohibited from entering the Bays, or taking the books from their places on the shelves.

The Library is open for giving out and receiving back books every lawful day during the Winter Session, from 11 A.M. till 2.30 P.M., except the Christmas and other Holidays specially appointed by the University, when it remains closed, and on Saturdays, when it is open from 11 A.M. till 1 P.M. During the Summer it is open on Mondays, Wednesdays, and Fridays, from 11.30 A.M. till 2 P.M.

CATALOGUES.

An Author and Subject Index containing the chief books likely to be interesting or useful to Students, and forming a fairly complete guide to the accessions in English of the last twenty years, may be purchased by readers in the Library at the price of One Shilling.

Students and Graduates who are engaged in special research will, on application to the Librarian, have access to the Classified Catalogues, which include also the older literature and works in foreign languages. The materials for these Catalogues — numbering already twenty-seven volumes — have been arranged by Professor Dickson, Curator of the Library, and the expenses incurred by him in connection with their preparation have been defrayed by Dr. A. B. McGrigor.

READING-ROOM.

In connection with the Library, a Reading-Room, provided with a special collection of books of reference for the use of Matriculated Students, is open for readers, Saturdays and holidays excepted, during the Winter Session from 9 A.M. till 3 P.M., and during the Summer Session from 11 A.M. till 2 P.M.

The Room is primarily intended for readers consulting the books of the Special Collection; but so far as the accommodation will allow, students may make use of it for individual private study. The following are the principal rules applicable to the Room :—

Every Matriculated Student, who shall at the beginning of the Session or thereafter record (in a book kept by the Librarian) his desire to use the Reading-Room in accordance with the rules for consulting of books or private study, will receive a voucher entitling him to admission. No student will be admitted to the use of the Room without producing his voucher.

Every such student shall on entering apply for a tally entitling him to a seat, shall use it only for the table indicated thereon, and shall personally return it to the Assistant in charge. All readers are required to take at once the seats assigned to them, to abstain from talking, whispering, or any other form of distracting or disturbing others, and to enter and leave the room (and vestibule) with as little noise as possible. Readers shall exhibit their tallies when asked; and shall at once give their names and matriculation numbers, if they shall be requested to do so.

Each student, desirous of borrowing books from the Special Collection in the Vestibule, is required to fill up one of the receipt papers with his name, matriculation number, and the title of the book or books wanted, and to present it to the Assistant-Librarian in charge. Students are not permitted to have the use of more than two volumes at one time. The books received are to be used only in the Reading-Room, and are to be returned by the receiver himself into the hands of the Assistant-Librarian. The return of books by those who have to leave the room at the end of any hour is to be made not later than five minutes before that time, and during that interval no books will be given out.

Books of reference not included in the Special Collection, but contained in the General Library, may be obtained for consultation in the Reading-Room on presenting a paper with the name and matriculation number of the reader making the request, and the title of the book wanted, to the Assistant-Librarian in the Vestibule.

The Assistant-Librarian in charge is instructed to report at once to the Library Committee the name of any student transgressing the rules.

N.B.—The south corridors have been enclosed and provided with benches for the use of *other* students in the intervals of their classes.

Donations to the University Library.

List of Donations from 1st March, 1889, to 28th February, 1890:—

- James B. Russell, M.D., LL.D.—Sanitary requirements of a dairy farm. 1889.—Tuberculous meat. Proceedings at trial ... before Sheriff Berry. 1889.—Sanitation and social economics. 1889.
- Abraham Coles, M.D., LL.D., Newark, N.J.—The microcosm and other poems. 1881.
- Corporation of the City of London.—Medal in commemoration of the Jubilee of Queen Victoria.—Calendar of wills enrolled in the Court of Husting, London. Part I. 1889.
- Benjamin Ward Richardson, M.D.—The Asclepiad. Nos. 21-24.
- Abraham Jacobi, M.D., New York.—Intestinal diseases of infancy and childhood. 1887.
- Secretary of State for India.—Prāsada, Catalogue of Sanskrit MSS. in Oudh. 1887.—Epigraphia Indica and record of the Archaeological Survey of India. Parts 1, 2, 3.—Catalogue of the Sanskrit MSS. in the College Library, Benares. 1888.—Mukharji, Art manufactures of India. 1888.—Fleet, Inscriptions of the early Gupta kings and their successors. 1888.—Watt, Dictionary of the economic products of India. I. II. 1889.
- Surgeon General's Office, U.S.A.—Reports for the years, ending June 30, 1888 and 1889.—Index catalogue of the library. Vol. X.
- J. H. Norman, Esq.—Sharland, Coin of the realm: what is it? 1888.
- James Christie, M.A., M.D.—The medical institutions of Glasgow. 1888.
- C. H. Waterhouse, Esq.—Signification and principles of art. 1886.

- Professor Dickson, D.D.—Edmond, Last notes on the Aberdeen printers. 1888.
 —Lee, University of Edinburgh. 1884.—Agnostic faith. 1889.—Williamson, Poems of nature and life. 1888.—Cooper, The conflict ended. 1885.
 —Glass, Adventures and traditions. 1884.—Laurie, Occasional addresses on educational subjects. 1888.—Hutchison, Hymni quidam hodierni. 1888.—Baxter, Forty coming wonders.—Catalogue of a collection of books formed by William G. Medlicott. 1878.—Official Catalogue of the International Exhibition, Glasgow. 1888; and Catalogue of Fine art section.
 —Miller, The least of all lands. 1888.—The Library Journal for 1889.
 Geological Survey of India.—Records. Vols. XXI, 4; XXII, 1-4.
 Batavia Observatory.—Observations. Vols. VIII-X, XI. 1883-1888.—Rain-fall in the Indian Archipelago. 1887-88.
 Mrs. Wardell, Tunbridge Wells.—Wardell, Contributions to pathology. 1885.
 Conservative Club, Glasgow.—Report of proceedings at the presentation of portraits of Sir Archibald Campbell, Bart. 1888.
 Regality Club.—Papers and illustrations. I, 4; 2nd series, Part I.
 Rev. George Campbell, Eastwood.—Catechism used by Mr. Wodrow in his visitations in Eastwood parish, with lists of his parishioners.
 George G. Napier, M.A.—Homes and haunts of Lord Tennyson. 1889.
 Dr. Gabriel Carrasco.—Primer censo general de la provincia de Santa-Fe. Libros II-XI. 1888.
 Cambridge Philosophical Society.—Transactions. Vol. XIV. Parts 3, 4.—Proceedings. VI, 5, 6.
 Royal Astronomical Society.—Monthly Notices. XLIX. 1889.
 Mineralogical Society.—Mineralogical magazine. Nos. 38-40.
 Medical Board of Victoria.—Medical Register. 1889.
 St. Louis Public Library.—Annual Report. 1887-88.
 Marquess of Lansdowne.—Catalogue of the ancient marbles at Lansdowne House. 1889.
 William Galbraith Miller, M.A., LL.B.—The faculty of law in the University of Glasgow. 1889.
 Institution of Civil Engineers.—Minutes of proceedings. Vol. XCV-XCVIII. 1889.—Charter, by-laws, and list of members. 1889.
 Society of Antiquaries of Scotland.—Proceedings. Vol. X. 1887-88.
 James Morison, Esq.—The Satakas of Bhartrihari translated by B. H. Wortham. 1886.—Peile, Greek and Latin etymology. 2nd edition. 1872.—Grimm, Geschichte der deutschen Sprache. 2 Bände in 1. 1853.
 —Sanhitá of the Sáma Veda. Edited by J. Stevenson. 1843.
 Trustees of the British Museum.—Catalogue of Greek Coins. Corinth, etc. 1889.—Boulenger, Catalogue of Chelonians. 1889.—Thomas, Catalogue of the marsupialia. 1888.—Foord, Catalogue of the fossil cephalopoda. Part I. 1888.—Woodward, Catalogue of the fossil fishes. Part I. 1889.—Catalogue of fossil reptilia and amphibia. Part II. 1889.—Catalogue of additions to the manuscripts, 1882-87.—Catalogue of Hindustani printed books. 1889.—Illustrations of specimens of lepidoptera heterocera. VII.—Guide to the mineral gallery. 1889.—Catalogue of the fossil reptilia and amphibia. III. 1889.
 Professor Sir William Thomson, LL.D.—Day, Mineral resources of the United States. 1887.—Bulletin of the U.S. Geological Survey. Nos. 40-47.—Reuschle, Tafeln complexer Primzahlen. 1875.—Atlas of the U.S. states and territories in which land surveys are now in operation. 1876.—Monographs of the U.S. Geological Survey. XIII. XIV. 1888.—Revue scientifique. 1889.
 The Marquess of Bute, K.T.—Gough, Scotland in 1298.—Facsimile and translation of the will of James V.
 Royal University of Ireland.—Calendar. 1889.

- A. R. Bennett, M.I.E.E.—Electric traction. 1889.
 Cornell University, Ithaca, N.Y.—Register. 1888-89.—Annual report of the library for 1886-87 and 1887-88.—Catalogue of the historical library of A. D. White. I.—Library bulletin. No. 23. II. No. 11.
 James Paton, F.L.S.—Report on Kelvingrove Museum, etc., for 1888.—Catalogue of pictures and sculptures in the Corporation Galleries of Art, Glasgow.
 R. Peel Ritchie, M.D.—Notes on report on pleuro-pneumonia. 1888.
 Rev. Alexander B. Grosart, D.D.—Elegy sacred to the memory of John M'Dowall, Esq. 1889.
 Professor R. J. Anderson, Galway.—Measurement of ribs in mammals. 1888. University of Otago.—Calendar for 1889.
 Committee of the Glasgow Medical Journal.—General index to the Journal from 1828 to 1888.
 Aberdeen University.—Calendar. 1889-90.
 W. Kelly.—Lectures on the day of atonement. 1889.
 George Johnson, M.D.—The Harveian oration. 1882.
 U.S. Coast and Geodetic Survey.—Bulletin. Nos. 8-11.—Annual report for 1887.
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DIVINITY HALL LIBRARY.

This Library is set apart for the special use of students in Divinity. It contains an extensive collection of Theological works. It is supported chiefly by an annual grant from the University Court of Seven Shillings for each student attending the Divinity classes.

The Librarian is elected annually by the students attending the Hall.

HUNTERIAN MUSEUM.

This Museum, one of the most interesting possessions of the Senate, was founded by the eminent William Hunter, M.D., who was born in 1718, at Cantieswell or at Long Calderwood, in the Parish of East Kilbride, Lanarkshire. By his will, dated 1783, he bequeathed to the Principal and Professors of the College, and their successors in office, his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens, and archæological relics, and appropriated £8,000 for the erection of a building for their reception and preservation.

The building erected in 1804 became the property of the Union Railway Company, as explained at page 25. But accommodation has been provided for the collections in the new buildings at Gilmorehill. The Museum occupies the north side of the eastern quadrangle, and consists of two halls, the upper of which is galleried. Visitors desirous of consulting in the Museum should, if possible, arrange to come between 2 and 4 p.m. Numismatists desirous of consulting the cabinet of medals should communicate with the Keeper a few days before the date of their proposed visit.

The Museum is now open to the public from 11 to 3 in winter, 11 to 4 in summer; admission sixpence. Catalogues of the Library, Medals, and Minerals are in course of preparation.

The Keeper of the Museum, by present custom the Professor of Natural History, is appointed by the Trustees, who, in terms of Dr. Hunter's will, are the Principal and Professors of the College.

The revenue derived from the admission fee has been hitherto the only fund available for the maintenance and extension of the collection. Donors of specimens are entitled to free admission. Each matriculated student has the privilege of introducing two friends three times during the session.

Donations to Museum 1889-90.

The following donors have contributed to the Museum during the past year :—

Zoological Specimens have been received from—J. M'Naught Campbell, Esq.; Capt. Kerr, Campbellton; R. Malcolm, Esq.; Bruce B. Morton, student; Rev. J. E. Somerville.

Geological Specimens have been contributed by—Rev. Wm. Earl, Kilsyth ; David Forsyth, M.A., D.Sc. ; D. C. Glen, Esq. ; Mr. Robert M'Ghie ; Matthew Pool, student ; John Wright, Esq.

The following donations have also been received—Coins, presented by James Meldrum, Esq. ; three glass shades and stands, presented by Miss MacLehose.

The most important addition during recent years has been the collection of the late F. A. Eck, Esq., formerly of Hollybush. During a long residence in South America, and afterwards while resident in Britain, Mr. Eck formed a splendid collection of minerals, numbering in all over 3,000 specimens. The minerals of Peru, Chili, Guatemala, New Grenada, Mexico, and California, are richly illustrated, while the European series of over 1,200 specimens is also representative. There are besides a fine series of polished precious stones, and also specimens of the old Mexican and Peruvian Pottery, and of modern carved work. This splendid gift—along with the handsome cabinets in which the specimens are contained—the largest since Miss Brown, of Lanfine, presented in 1875 one half of her late father's mineral collection, is due to the generosity of Mr. Eck's family, who have enjoined that the collection be kept apart and used, so far as possible, to aid the teaching of mineralogy. In February 1888, the Council of the West of Scotland Technical College made over to the Hunterian Museum the Zoological and Ethnological collection of the Andersonian University, later known as Anderson's College, and now merged in the Technical College, the Council requiring the space for illustrations of the lectures given under their direction. The collections, which are of very great value and extent, were largely due to the generosity of the naturalists and merchants of Glasgow, to whom the Hunterian Museum is also under great obligations. The collection of birds formed by the late John Alexander, Esq., Dowanhill, was presented by Messrs. W. J. Chrystal and J. Gibson Fleming.

BOTANIC GARDEN.

A piece of ground adjoining the old College was for many years set apart as a Botanic Garden, for the use of the Lecturer on Botany ; but the great increase of manufactories and other buildings in its vicinity having rendered it unfit for such a purpose, the University, in 1817, agreed to subscribe £2,000 towards the formation of a new Botanic Garden then projected by the citizens of Glasgow, on condition that a Lecture-Room

should be erected within it for the exclusive use of the Professor of Botany and his pupils—that every facility should be given them in prosecuting the study of Botany—and that three Directors of the Institution should be annually appointed by the Faculty of the College, to represent and protect the interests of the University. The Garden to which this agreement referred was completed and opened to the public in 1819. A Lecture-Room, in which the Professor of Botany delivered an annual course of lectures during the summer months, was built; and the collection of plants, from the zeal and ability of the Superintendent, and the favourable situation of Glasgow, had become one of the richest and most valuable in the island. The extension of the town again compelled the removal of the Garden to its present site in Hillhead, at a greater distance from the old College, so that the Professor, while he continued to give in it the practical portions of the course (*Demonstrations*), found it more convenient to deliver his Lectures at the College. The removal of the College to Gilmorehill brought it nearer the Botanic Garden, but the Lecture-Room in the Garden being inadequate for the students attending the course of Elementary Lectures on Botany, and there being no Laboratory, Museum, or Herbarium Room in the Garden, the Professor has continued, though at great inconvenience, to deliver his elementary Lectures and to have his Laboratory at the College. The advanced Lectures delivered during the winter, are, however, given in the old Lecture-Room, within the Garden. It is desirable that the accommodation in the Botanic Garden be increased so that the elementary lectures as well as the advanced lectures and the practical demonstrations may be given in the Garden, that the Botanical Laboratory be established there also, and that the Herbarium and Museum be lodged alongside of the Lecture-Room.

VI.—GRADUATION IN THE SEVERAL FACULTIES.

EXAMINERS FOR DEGREES.

Degree in Arts.

The Examiners for the Degree of Master of Arts, without Honours, are the Professors whose classes are embraced in the prescribed course of study, and in addition, Three Persons, not being Professors

or Assistant-Professors in any Scottish University, appointed by the University Court, and in the appointment of whom regard is had to their eminence in Classical Literature, Mental Philosophy, and Mathematical Science.

The Examiners appointed by the University Court are appointed for a term of three years, but the appointment of any Examiner, during the currency of his term of office, to a Professorship or Assistant-Professorship in any Scottish University, is held to vacate his office of Examiner; and in the event of a vacancy in the office of Examiner occurring otherwise than by the expiration of his term of office, the Examiner appointed by the University Court, in his room, is appointed for the remainder of such term only.

No person who has been appointed to the office of Examiner for the period of three years, is eligible for re-appointment to the office of Examiner in the same University, until he has ceased to hold the office of Examiner in such University for not less than one year.

The Examiners for Graduation with Honours are the same Professors and additional Examiners as for Graduation without Honours; in the examination of candidates for Honours in the Department of Natural Science, there are added the Professors of Natural History, Chemistry, and Botany; and the University Court may, if they think fit, appoint an additional Examiner, skilled in Natural Science, not being a Professor or Assistant-Professor in any Scottish University.

No person is eligible for appointment to the office of Examiner who is not a member of the General Council of one or other of the *Scottish Universities*.

Degrees in Science.

The Examiners for Degrees in Science in those subjects not included in the curriculum for M.A., are the Professors in the several departments.

Degrees in Medicine.

The Medical Examiners for Graduation in Medicine are the Professors in the Faculty of Medicine (including the Professor of Natural History), and, in addition, not fewer than six persons, appointed by the University Court, who are selected from among the Fellows of the three following bodies, namely: the Royal College of Physicians of Edinburgh, the Royal College of Surgeons of Edinburgh, and the Faculty of Physicians and Surgeons of Glasgow, or persons otherwise fully qualified in the judgment of the University Court.

The examinations in extra-professional education are conducted under the superintendence of the Examiners in Arts (who may be Professors), together with some of the Medical Examiners.

Degrees in Law.

The Examiners for the Degree of Bachelor of Laws are the Professors in the Faculty of Law and three additional Examiners appointed by the University Court, who are Professors in the Faculty of Law in a Scottish University, or who have obtained the Degree of Bachelor of Laws in accordance with the provisions of Ordinance of the Universities Commissioners, No. 75.

The Examiners for the Degree of Bachelor of Law are the Professors in the Faculty of Law, together with two additional Examiners appointed by the University Court from among Graduates of Law of any of the Universities of Scotland. Each of such additional Examiners holds office for the term of three years.

Degrees in Divinity.

The Examiners for the Degree of Bachelor of Divinity are the Members of the Divinity Faculty.

REGULATIONS FOR GRANTING DEGREES.

1.—GRADUATION IN ARTS.

There are two examinations for students about to enter the Faculty of Arts, viz., the Entrance Examination and the Preliminary Examination. Students under the age of 17 years are required to pass the Entrance Examination, and thereafter may complete their course in four sessions. The Preliminary Examination must be passed by those students, whether under or over the age of 17 years, who wish to complete their course in three sessions.

Entrance Examination in the Faculty of Arts.

The University Court, on 4th April, 1882, resolved to institute an Entrance Examination in the Faculty of Arts, and the necessary steps having been taken, the first Entrance Examination was held in November, 1883.

The Entrance Examination for the session 1890-91 will be held upon *Tuesday, the 4th, and Wednesday, the 5th of November, 1890*, beginning at 10 A.M. on each day. All students entering the University for the first time in the session 1890-91, and who have not completed the age of 17 on or before the 1st November, 1890, will be required to pass the Examination, unless they have previously presented themselves for the Preliminary Examination in Arts, and passed in at least two of the subjects of that Examination. Candidates who fail in the Preliminary Examination, but who, in the opinion of the Examiners, have come up to the standard required for the Entrance Examination in any subject, will be exempted from examination in that subject. All other students below the age of 17 who do not present themselves for the Entrance Examination, or

who fail to pass it, will be permitted to attend any of the classes in the curriculum of Arts for purposes of instruction, but such attendance will not qualify for graduation, nor entitle a student to receive a Public Certificate of attendance.

Candidates desiring to present themselves for the Entrance Examination are requested to send in their names to the Clerk of Senate on or before Saturday, October 25th, 1890, stating in what subjects they desire to be examined.

The Examination will be conducted by two special Examiners, acting in conjunction with the Professors in the Faculty of Arts. The Examiners for 1890 will be Mr. John G. Kerr, M.A., Lecturer in the Church of Scotland Training College, Glasgow, and Mr. James Wood, M.A., Glasgow Academy.

REGULATIONS FOR THE ENTRANCE EXAMINATION FOR THE ARTS
CLASSES IN THE UNIVERSITY OF GLASGOW.

1. The above Examination must be passed by all students who have not attained the age of 17, and who are for the first time entering any of the Arts Classes with a view to a Public Certificate.

2. Students who have passed the Preliminary Examination *in at least two subjects* are not required to pass the Entrance Examination. No student below the age of 17 can pass the Preliminary Examination in one subject only, unless he also pass the Entrance Examination.

3. In the event of a student below the age of 17 failing to pass the Entrance Examination, but nevertheless electing to attend and attending any of the Arts Classes for purposes of instruction only (*i.e.*, as a private student in accordance with the regulations of the Senate), he is permitted to present himself for the Preliminary Examination at the commencement of the next (or any subsequent) Session, which shall be considered for the purposes of Ordinance No. 14, sec. I., as "the time of his entrance to the University."

4. All candidates are required to pass in English; and, in addition, in any two of the following five subjects, viz.:—1, Latin; 2, Greek; 3, Arithmetic and Mathematics; 4, French or German; 5, A period of History. Two hours will be given for the Examination in each subject.

5. The Examination in the various subjects will be as follows:—

ENGLISH—On Tuesday, 4th November, at 1 P.M.

- (a) Passage to be written from Dictation.
- (b) Questions on Grammar.
- (c) A subject will be proposed for a short English Composition.

LATIN—On Wednesday, 5th November, at 10 A.M.

- (a) Latin Grammar, including Syntax.
- (b) An easy passage from a Latin author to be translated into English, with parsing of words.
- (c) Sentences to translate from English into Latin.

GREEK—On Wednesday, 5th November, at 3.30 P.M.

- (a) Xenophon's *Anabasis*, Book II. Translation; with questions on
(1) Parsing; (2) Syntax; (3) History and Geography.

MATHEMATICS—On Tuesday, 4th November, at 10 A.M.

- (a) Arithmetic.
(b) Euclid, Books I. and II.
(c) Algebra, including Equations with One unknown quantity.

FRENCH—On Wednesday, 5th November, at 1 P.M.

- (a) Passage for Translation into English from Voltaire's *Charles XII.*,
Books I., II., and III.
(b) Easy passage from some author selected by the Examiner.
(c) Questions on Grammar, with an easy passage of English to be
translated into French.

GERMAN—On Wednesday, 5th November, at 1 P.M.

- (a) Passage to translate from Schiller's *Maria Stuart*, Acts I., II.,
and III.
(b) Easy passage for translation from some author selected by the
Examiner.
(c) Questions on Grammar, with an easy passage to be translated from
English into German.

HISTORY—On Tuesday, 4th November, at 3.30 P.M.

Candidates to have a choice between Ancient and Modern History. Those
who select Ancient History will be expected to have a good
general knowledge of the following periods:—

- (a) *Greek History*, from B.C. 431 to B.C. 323; and
(b) *Roman History*, from B.C. 133 to B.C. 31.

Those Candidates who select Modern History will be expected to have a
good general knowledge of the following periods:—

- (c) *Scottish History*, from the accession of James I. of Scotland down
to the Union of the Crowns.
(d) *English History*, from the accession of James I. of England to the
accession of William III.

6. Candidates who have gained the Senior or Junior Local Certificate of any Scottish University, or the Certificate of an equivalent examination in England or Ireland, for any three of the subjects included in the examination (of which English must be one), will be exempted from the Entrance Examination.

7. Although in several of the subjects special books have been set, the main object of the examination will be to ascertain that the Candidate has a sound general knowledge of the subject, and especially of its elements, rather than to test a specially-acquired knowledge of the books prescribed.

Preliminary Examination in Arts.

The Preliminary Examination in Arts for the session 1890-91 will be held on *Tuesday, the 28th October, 1890, and three following days*, beginning at 10 A.M. on each day.

The attention of students is called specially to the following points :—

1. The Preliminary Examinations are in every case voluntary.
2. No student can offer himself for a Preliminary Examination except when entering the University for the first time.*
3. A student who passes the Preliminary Examination both in Greek and in Latin, may complete the course of study required for the Degree of Master of Arts in three sessions.
4. A student who passes the Preliminary Examination in one or more departments is entitled to enter the Senior class or classes in the department or departments in which he passes, and may qualify himself for Graduation in Arts by attending such Senior class or classes for one session, without attending the Junior class or classes in the department or departments in which he passes.

A Senior Certificate granted by the Local Examination Board of any Scottish University, or the Higher Grade of Leaving Certificate, may be accepted *pro tanto* as qualifying for a course of three sessions.

The subjects of the Preliminary Examination in the different departments are as follows :—

Latin and Greek.

Passages to translate from Latin and Greek authors.

Translation from English into Latin.

Questions in Grammar and History, with translation of English sentences.

Mathematics.

First Six Books of Euclid.

Plane Trigonometry.

Algebra, including Quadratic Equations.

* * The Examination Questions for 1889 are given in the *Calendar*.

The Preliminary Examination in Latin, Greek, and Mathematics is combined with the Examination for the Competition Bursaries.

Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) not later than October 21st.

Degree of Master of Arts.

I. The Course of Study necessary for the Degree of Master of Arts extends over four Winter Sessions, and includes attendance for not less than two sessions on the classes of Humanity, Greek, and Mathematics respectively, and attendance for not less than one session on the classes of Logic, Moral Philosophy, and Natural Philosophy respectively, and also attendance on a course of English Literature; but any student who, at the time of his entrance to the University, shall satisfy the Professors in the Faculty of Arts, on

*See 3, page 115.

examination, that he is qualified to attend the higher classes of Latin, Greek, and Mathematics, or any of them, is admitted to such higher class or classes, without having previously attended the first or junior class or classes in the same department or departments; and in the case of students who are, after such examination, admitted to the higher Greek and Latin classes, the course of study for the Degree of Master of Arts may be completed within three winter sessions instead of four.*

The attention of students about to pursue the course of study for the Degree of Master of Arts is called to the following regulations, adopted by the Senate, which will apply to students commencing in Session 1875-76 (or thereafter) the course of study for the Degree:—

1. Attendance on the qualifying course of Natural Philosophy for the Degree of M.A. shall be subsequent to the completion of the qualifying course of Mathematics.

2. Two sessions of the lowest class of Humanity, or Greek, or Mathematics, do not constitute two sessions of one of these classes, within the meaning of Ordinance No. 14.

3. A student found qualified at the Preliminary Examination to attend the Senior class of Humanity, or Greek, or Mathematics, must attend such Senior class in order to qualify for the Degree without more than one session's attendance on such class.

It is strongly recommended that students prepare themselves to attend the upper junior class of Mathematics in the first or second session of their course of study for the degree.

4. In session 1879-80, and thereafter, to qualify for the Arts Degree, the Logic Class and the Moral Philosophy Class must be attended in separate sessions, the Logic Class being taken first.

II. In pursuing the course of study for the Degree of Master of Arts, no student is permitted to pass from the junior to a higher class in any department, unless the Professor is satisfied of his fitness to enter the higher class.

III. Any student who has completed the required attendance on the Latin and Greek Classes, may be examined on those subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course; and, in like manner, any student who has completed the required attendance on the classes of Logic and Moral Philosophy, and course of English Literature, may be examined on these subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course; and, in like manner, any student who has completed the required attendance on the classes of Mathematics and Natural Philosophy, may be examined on these subjects at any examination for Degrees, although he has not completed his attendance on the other classes of the prescribed course

* For details of this Preliminary Examination see above.

and, if such student shall satisfy the Examiners, when so examined in Latin and Greek, or in Logic, Moral Philosophy, and English Literature, or in Mathematics and Natural Philosophy, he is entitled to receive from them a certificate to that effect, and he is not again examined on the same subjects, as a condition of his taking the Degree of Master of Arts.

IV. Students who have passed satisfactorily an examination or examinations on the several subjects embraced in the prescribed course of study, are entitled forthwith to receive the degree of Master of Arts without Honours; but they may, before taking a Degree, offer themselves for a farther examination, with a view to Graduation with Honours; provided always, that any student who desires to offer himself for examination, with a view to Graduation with Honours, in any one or more departments, may proceed to such examination without having previously passed the examination in such department or departments for the Degree of Master of Arts without Honours; and if such student, in the opinion of the Examiners, fails to attain the standard for Honours in any department, but attains to the standard of the examination for Graduation without Honours, he shall be held to have passed in that department for the Degree of Master of Arts without Honours, but if in any such department he fails to attain to the standard of the examination for Graduation without Honours, he shall not be entitled, until he shall have passed in that department, to the Degree of Master of Arts: * Provided also, that no person shall be admitted to examination for Honours after he has ceased to be a matriculated student in attendance on a class or classes in the University for more than one winter session, unless he has been prevented from offering himself by ill-health or other sufficient cause. †

V. There are four departments, in any one or more of which candidates for Graduation with Honours may offer themselves for examination, viz. :—

A. Classical Literature.

B. Mental Philosophy, including Logic, Metaphysics, and Moral Philosophy.

C. Mathematics, including Pure Mathematics and Natural Philosophy; and

D. Natural Science, including Botany, Geology, Zoology, and Chemistry.

* The above change in the ordinance regulating the examination for Graduation with Honours was approved by Her Majesty in Council, June 4th, 1870. By minute of Senate, of date November 27, 1873, with reference to this change in the ordinance, a student is allowed to go in for honours in any department, whether or not he has completed his curriculum, provided that he has sufficiently attended the classes in the department in which he offers himself; but no certificate of passing with Honours is given till the Degree is conferred.

† By minute of date 28th November, 1872, the Senate resolved that the power conferred on them of dispensing with the above regulation "will not be exercised except in the case of the applicant having been precluded from attendance by ill-health, or very peculiar circumstances, quite beyond the applicant's control; attendance at another University not to be considered such."

VI. In each of the first three of the above-mentioned departments—viz., in Classical Literature, in Mental Philosophy, and in Mathematics—there are two grades of honour, denominated respectively the First Class and the Second Class; but in the department of Natural Science there is one class of Honours only; and the names of the candidates entitled to honours in each class, in the several departments, are arranged, when publicly announced, in alphabetical order.

VII. It is in the power of any student, who has given attendance during one or more sessions on the course of study in any other *Scottish* University, to complete his course of study, and proceed to the degree of M.A. in this University: Provided always, that every such student shall produce, to the satisfaction of the *Senatus Academicus* of this University, testimonials of his attendance at the former University, and shall be examined in all the departments necessary for the degree of Master of Arts by the Examiners of this University: Provided also, that no student shall be admitted to a Degree in this University unless he has given attendance in this University during the last two sessions of his course.

VIII. The Degree of Master of Arts is in no case conferred except on persons who have complied with the conditions hereinbefore set forth, and is in no case conferred *honoris causâ tantum*.

IX. Every student who, previous to the commencement of session 1861-62, had completed a part of his course with a view to Graduation in Arts, under regulations in force at the time, and who shall hereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Master of Arts without complying with the present regulations, so far as they relate to the course of study for that degree, provided he pass the examination or examinations required by the present regulations.

X. Each candidate for the Degree of Master of Arts is required to pay a Fee of One Guinea in respect of each of the three departments of the Examination for Graduation without Honours; each such Fee of One Guinea being payable at the time at which the candidate comes forward to be examined in that department in respect of which it is payable; and no further Fee than the sum of Three Guineas is payable by any candidate in respect of examination for the said degree, whether with or without Honours.

XI. The Examinations for the Degree of Master of Arts are held in April and November (in 1890-91, commencing November 1st and April 11th); and the graduation takes place in the end of April, and in November. Applications for examination must be lodged with the Assistant Clerk (Matriculation Office), on 1st October, 1890, and 10th March, 1891, respectively.* The subjects and the dates of examination are set forth in the accompanying tables.

* When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the examination until his Name is entered, the Fee paid, and all the necessary certificates, etc., lodged.

TABLE OF SUBJECTS OF EXAMINATION FOR THE DEGREE OF MASTER OF ARTS, ACCORDING TO THE DIFFERENT CLASSES OF DISTINCTION WHICH CANDIDATES MAY HAVE IN VIEW.

The Examination Question prescribed in April, 1890, in the several Departments and Subjects will be found towards the end of the Calendar.

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
LATIN	<p><i>For November, 1890, and April, 1891.</i> VIRGIL, <i>Æneid</i>, Book VII. HORACE, <i>Odes</i>, Books II, III. HORACE, <i>Satires</i>, Book I. TACITUS, <i>Annals</i>. Any one of the following: (a) CICERO, any oration (or orations) of not less than 40 chapters; (b) CICERO's <i>Epistles</i>, any 40 consecutive pages (Pritchard and Barnard's Edition); (c) any Book of LIVY. ROMAN ANTIQUITIES and ROMAN HISTORY from B.C. 133 to B.C. 31 (<i>Students' History of Rome</i>, Books VI and VII). Unseen translation. Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the books read is essential. <i>For November, 1891, and April, 1892.</i> VIRGIL, <i>Æneid</i>, Book XI. HORACE, <i>Odes</i>, Books III, IV. HORACE, <i>Satires</i>, Book II. TACITUS, <i>Germania</i>. Any one of the following: (a) CICERO, any oration or orations of not less than 40 chapters; (b) CICERO's <i>Epistles</i>, any 40 consecutive pages (Pritchard & Barnard's Selection); (c) any Book of LIVY. ROMAN ANTIQUITIES and ROMAN HISTORY, from B.C. 133 to B.C. 31 (<i>Students' History of Rome</i>, Books VI, VII). Unseen translation. Proficiency in Latin Prose Composition and in Grammar is required. A knowledge of the matter of the books read is essential.</p>	<p><i>For November, 1890,* and afterwards till further notice.</i> VIRGIL, <i>Æneid</i> VII.—XII. HORACE, the <i>Odes</i> and <i>Satires</i>. And any two (or more) of the following combinations; (a) LUCRITIUS, Books I, II, with a play of PLAUTUS. (b) JUVENAL (the whole excepting Sat. II, VI, and IX). (c) PERSIUS, with Sellar's Selections from Martial, Books I-IV. (d) CARULLUS (Strong's Selection) and Propertius (Mansay's Selection). CICERO, the <i>Philippic Orations</i>, I-VI, or any oration of Cicero, or any consecutive portion of Cicero's <i>Epistles</i> (Muirhead's or Pritchard and Barnard's Selections) of at least equal length. LIVY, I-III, or XXI-XXIII. TACITUS, <i>Annals</i>, Books I-IV. With Latin Composition, History, and Antiquities, &c. Passages also from books not prescribed will be set. Candidates may profess any extra books they please.</p>

* N B—The Examination for Honours in Classics and for Classical Fellowship will commence upon Saturday, November 1st, at 3 p.m. (instead of on the Monday as formerly).

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
GREEK	<p>November, 1890, and April, 1891.</p> <p>HOMER, <i>Iliad</i> or <i>Odyssey</i>; any continuous 750 lines.</p> <p>SOPHOCLES, <i>Philoctetes</i>, <i>Trachiniae</i>, or <i>Electra</i>.</p> <p>HERODOTUS, Book IX., to ch. 65.</p> <p>PLATO, <i>Crito</i>.</p> <p>A simple passage of unscen translation will be set.</p> <p>Questions on Greek Grammar, Literature, History, and Antiquities. The questions on History will be on Dr. W. Smith's <i>Students' History of Greece</i>, ch. XXII-XXXIII inclusive (478-404 B.C.).</p> <p>November, 1891, and April, 1892.</p> <p>HOMER, <i>Od.</i> IX. or XII., or <i>Iliad</i>, XXII.</p> <p>SOPHOCLES, <i>Electra</i>, or ÆSCHYLUS, <i>Prometheus Desmotēs</i>.</p> <p>HERODOTUS, Book IX., to ch. 65.</p> <p>PLATO, <i>Protagoras</i>: to end of Protagoras' Speech, p. 328 c.</p> <p>Unscen translation.</p> <p>Questions as above. The questions on history will refer to Oman's <i>History of Greece</i> (478-404 B.C.).</p>	<p>November, 1890: and afterwards till further notice.</p> <p>(HOMER, <i>Odyssey</i>, Books I-XII.</p> <p>Any two of the following four groups:</p> <p>1. ÆSCHYLUS, <i>Agamemnon</i> and <i>Eumenides</i>.</p> <p>2. SOPHOCLES, <i>Oedipus Tyrannus</i>, <i>Oedipus Coloneus</i>.</p> <p>3. EURIPIDES, <i>Phoenissae</i>, <i>Iphigenia in Aulide</i>.</p> <p>4. PINDAR, any two books of the <i>Odes</i>.</p> <p>THUCYDIDES, Books III, IV, V, VI.</p> <p>Either— 1. PLATO, any two of the following Dialogues:—<i>Phædo</i>, <i>Protagoras</i>, <i>Gorgias</i>, <i>Theætetus</i>: IV, V, VI (as numbered in Bekker's text), or</p> <p>2. ARISTOTLE, <i>Politics</i>, Books I, II, III, or <i>Rhetoric</i>, Books I and III.</p> <p>Or—</p> <p>Greek Composition. Questions in Greek Grammar, Literature, History, and Antiquities.</p> <p>Candidates will be required to show a thorough acquaintance with the subject matter, as well as with the text, of the Books.</p> <p>Candidates for Second Class Honours only may profess an amount equivalent to at least <i>one-half</i> of each of the authors, Greek or Latin, prescribed above.</p>
Logic	<p>The Professor's Lectures, and <i>Institutes of Logic</i>, except chapters V, XIII, XX, XXV (Large Print only).</p>	<p>In addition, (a) Pre-Socratic systems, The Theætetus; (b) Descartes, the Method, Meditations and Principles of Philosophy (English Translation, with Introduction, 1879); Berkeley (Fraser's Selections, 1879); Locke's Essay, Books II and III; Hume, Enquiry Concerning Human Understanding; Reid, Essays on the Intellectual Powers, II, III, VI, with Hamilton's Notes and Supplementary Dissertations to Reid. Hamilton's Discussions (Logic, Perception, Cousin and Philosophical Appendix). (c) Kant's Critique of the Pure Reason; Stählin's Kant, Lotze, and Ritschl, pp. 1-182. The General Principles and Methods of Fichte, Schelling, Hegel, Lotze; Kirchner, Manual of Psychology (translated by Drought). (d) Institutes of Logic (Large and Small Print); Mill's Logic, Books III and IV. (e) Questions on the History of Philosophy—Reference to Ueberweg.</p>

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
MORAL PHILOSOPHY	<p>The Professor's Lectures during the session in which the student examined has attended the Moral Philosophy Class; and the text-book, if any, used in the Class during that session.</p>	<p>Candidates for Honours will be examined on the History of Ancient and Modern Philosophy, as well as on Moral and Political Philosophy. They are required to show accurate knowledge of the following books: (1) Plato's Republic; (2) Aristotle's Ethics; (3) Spinoza's Ethics; (4) Kant's Critiques of Pure and Practical Reason; (5) Green's Prolegomena to Ethics. They are also recommended to study such works as Hegel, as translated and illustrated by Dr. Stirling and Mr. Wallace, Widsom's Kant, Maine's Ancient Law, Green's Hume, Lotze's Microcosmus, Bradley's Ethical Studies, Spencer's Data of Ethics and Sociology, and Sidgwick's Methods of Ethics; but they will not be specially examined on these books.</p>
ENGLISH LITERATURE	<p>The Professor's Lectures, and the works selected for special study in the Class, either in session 1889-90, or in session 1890-91.</p>	
MATHEMATICS	<p>Euclid, First Six Books. Algebra, including Quadratic Equations, Progressions, and Binomial Theorem for Positive Integers. Plane Trigonometry, including the Solution of Triangles by the aid of Logarithmic tables.</p>	<p><i>Second Class.</i>—In addition, Euclid XI, 1 to 21; Higher Algebra; Plane Trigonometry; Analytical and Geometrical Conics, and Differential and Integral Calculus so far as treated in the Senior Mathematical Class. <i>First Class.</i>—In addition, Spherical Trigonometry, Solid Geometry, Differential and Integral Calculus, Differential Equations, and Finite Differences.</p>
NATURAL PHILOSOPHY	<p>Examination on the Subjects explained in the Class, including Astronomy. On the Elements of Statics and Dynamics, with the solution of problems not requiring the Differential or Integral Calculus; Experimental Science, including Sound, Light, Heat, Electricity, and Magnetism.</p>	<p><i>Second Class.</i>—Thomson and Tait's Elementary Treatise on Natural Philosophy; Maxwell or Balfour Stewart on Heat; Rankine on Sound; Central Forces. The subject of special course on Mathematical Physics for session of attendance. Portions of Thomson's Electrical Papers to be professed. <i>First Class.</i>—In addition, Portions of Thomson and Tait's Natural Philosophy (large work) to be professed; also, other portions of Fourier's Théorie Analytique de la Chaleur, or the Mathematical theory of one of the following subjects, Electricity, Magnetism, Light, Sound, Elasticity of Solids. For undulatory Theory of Light, Jamin, Cours de Phys., Vol. III, Part II, and Airy recommended.</p>

IN	FOR ORDINARY DEGREE.	FOR HONOURS.
BOTANY		Morphology, Physiology, and Taxonomy.
CHEMISTRY		General Principles. Physical Chemistry. Text-Books recommended—Miller's Elements, 3 vols.; Roscoe and Schorlemmer's Treatise; Schorlemmer's Carbon Compounds; Armstrong's Organic Chemistry.
GEOLOGY		Prestwick's Geology; Green's Geology, vol. I., with Lyell's Student's Manual; Dana's Manual of Geology; Young's Physical Geography.
ZOOLOGY		Huxley's Manuals of the Invertebrata and Vertebrata. Macalister's Animal Morphology. Claus, Zoology.

N. B.—Candidates may be examined in the last four subjects by the aid of Specimens.

TABLE OF EXAMINATIONS IN THE SUBJECTS FOR THE DEGREE OF M.A., FOR THE CERTIFICATE OF L.A., AND FOR THE DIPLOMA FOR TEACHERS, TO BE HELD DURING SESSION 1890-91.

Department.	Names to be given in and Fees paid to Assistant-Clerk (Matriculation Office). Date.	FEE.	Subjects of Examination.	Dates of Written Examinations and Hours at which the different papers will be set.
CLASSICAL.	{ 1st Oct. or 10th March	£1 1s.	{ Latin and Greek,	November, 1890. Saturday, 1st November, at 3 p.m.* Monday, 3rd November, 10-12, 1-3, and 4-6 p.m. Tuesday, 4th November, 10-12 and 1-3 p.m. Thursday, 6th November, and following days at 11 a.m. (Orals).
				April, 1891. Saturday, 11th April, at 3 p.m.* Monday, 13th April, 10-12, 1-3, and 4-6 p.m. Tuesday, 14th April, 10-12 and 1-3 p.m. Thursday, 16th April, and following days at 11 a.m. (Orals).
				Saturday, 1st November, at 10 a.m. Wednesday, 5th Nov., at 10 a.m. Thursday, 6th November, at 10 a.m.
				Saturday, 11th April, at 10 a.m. Wednesday, 15th April, at 10 a.m. Thursday, 16th April, at 10 a.m.
PHILOSOPHICAL	Do. do.	£1 1s.	English Literature, Logic, - - - Moral Philosophy, -	Friday, 17th April, 11-2 and 3-6 p.m. Saturday, 18th April, 10-1 and 2-5 p.m.
MATHEMATICAL	Do. do.	£1 1s.	Mathematics, - - Natural Philosophy.	

* Honours paper only.

Certificate of Literate in Arts.

In 1880 the University Court, after communication with the Senate and the General Council, and with the sanction of the Chancellor, instituted a certificate conferring the title of "Literate in Arts."

The following are the regulations for granting this certificate :—

1. The Certificate of Literate in Arts is open to all persons who have been public students in the Faculty of Arts for not less than two Sessions, and who during that time have given attendance at not less than five of the classes included in the course of study for the M.A. Degree.

2. No student is permitted, with a view to the Certificate of Literate in Arts, to reckon attendance on more than two of the classes included in any one of the three departments of the Arts course, *i.e.*, Classical Literature, Mental Philosophy, and Mathematics.

3. The examination for the Certificate may be taken at one, two, or three periods, at the option of the candidate, and either in April or in November ; but in no case can the examinations included in any one department be separated from each other. Candidates presenting more than one subject included in one department must pass in *both* at the same time.

4. The examinations and standard of proficiency required for the said Certificate are, in respect of the classes attended, the same as those demanded in the subjects belonging to the same classes for the M.A. Degree : and the examination papers will be the same as those set in the corresponding subjects for that Degree.

5. When all the subjects are taken at one examination the fee is £2 2s. ; when the examination is divided, the fee is £1 1s. for the examination in the department first taken, and £1 1s. for that taken next ; but no fee paid with a view to the said Certificate shall be accepted as *pro tanto* payment towards the fee exigible for the M.A. Degree.

6. Not less than three of the five classes constituting the attendance required for the Certificate, and in all cases the last year of the course must have been taken in the University of Glasgow. All the examinations must be passed in this University.

7. The Certificate of Literate in Arts is not open to students whose qualifications for the Certificate are entirely of a date anterior to April, 1880.

The subjects of Examination for the Certificate of Literate in Arts are as follows :—

A. DEPARTMENT OF CLASSICS.

Latin, for November, 1890, and April, 1891.

Virgil, *Æneid*, Book VII.

Horace, *Odes*, Books II., III.

Horace, *Satires*, Book I.

Tacitus, *Agricola*.

Any one of the following :—

(a) Cicero, any oration or orations of not less than 40 chapters :

(b) Cicero's *Epistles*, any 40 consecutive pages (Pritchard and Barnard's Edition) ;

(c) Any Book of Livy.

A piece of unseen translation will be added.

Roman Antiquities and *Roman History*, from B.C. 133 to B.C. 31 (*Students' History of Rome*, Books VI. and VII.).

Proficiency in Latin Prose Composition and in Grammar is required.

A knowledge of the matter of the Books read is essential.

Latin, for November, 1891, and April, 1892.

Virgil, *Æneid*, Book XI.

Horace, *Odes*, Books III., IV.

Horace, *Satires*, Book II.

Tacitus, *Germania*.

Any one of the following :—

(a) Cicero, any oration or orations of not less than 40 chapters :

(b) Cicero's *Epistles*, any 40 consecutive pages (Pritchard and Barnard's Selection) ;

(c) Any Book of Livy.

A piece of unseen translation will be added.

Roman Antiquities and *Roman History*, from B.C. 133 to B.C. 31 (*Students' History of Rome*, Books VI. and VII.).

Proficiency in Latin Prose Composition and in Grammar is required.

A knowledge of the matter of the Books read is essential.

Greek, for November, 1890, and April, 1891.

Homer, *Iliad* or *Odyssey*, any continuous 750 lines.

Sophocles, *Philoctetes*, *Trachiniae*, or *Electra*.

Herodotus, Book IX., to ch. 65.

Plato, *Crito*.

A simple passage of unseen translation will be set.

Questions on Greek Grammar, Literature, History, and Antiquities.

The questions on History will be on Dr. W. Smith's *Students' History of Greece*, ch. XXII.-XXXIII. inclusive (478-404 B.C.).

Greek, for November, 1891, and April, 1892.

Homer, *Odyssey*, Book IX. or XII., or *Iliad*, Book XXII.

Sophocles, *Electra*, or Aeschylus, *Prometheus Desmotes*.

Herodotus, Book IX to ch. 65.

Plato, *Protagoras*, to end of Protagoras' speech, p. 328 C.

Unseen translation.

Questions on Greek Grammar, Literature, History, and Antiquities.

The questions on History will refer to Oman's *History of Greece* (478-404 B.C.).

B. DEPARTMENT OF MENTAL PHILOSOPHY.

Logic.

The Professor's Lectures, and *Institutes of Logic*, except chapters V., XIII., XX., XXV. (Large Print only).

Moral Philosophy.

The Professor's Lectures during the session in which the student examined has attended the Moral Philosophy Class ; and the text-book, if any, used in the class during that session.

English Literature.

The Professor's Lectures, and the works selected for special study in the class, either in session 1889-90, or in session 1890-91.

C. DEPARTMENT OF MATHEMATICS.

Mathematics.

Euclid, First Six Books.

Algebra, including Quadratic Equations, Progressions, and Binomial Theorem for Positive Integers.

Plane Trigonometry including the solution of Triangles by the aid of Logarithmic Tables.

Natural Philosophy.

Examination on the Subjects explained in the Class, including Astronomy. On the elements of Statics and Dynamics, with the solution of problems not requiring the Differential or Integral Calculus; Experimental Science, including Sound, Light, Heat, Electricity, and Magnetism.

Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on 1st October, 1890, or 10th March, 1891.*

Diploma for Teachers.

This Diploma is open to all students who are preparing themselves for the teaching profession, and who, besides fulfilling the conditions laid down by the Scotch Education Department for a Certificate of competency, shall, in addition, go through a course of study, and pass the corresponding examinations, at the University.

The following are the regulations for the Diploma :—

1. No candidate will be allowed to reckon attendance on any University Class as qualifying for the Diploma unless he produce evidence of having previously passed one or other of the following examinations, or any other examination accepted by the Senate as equivalent to such examinations—

(1) The entrance examination conducted at the Training Colleges with a view to certifying Queen's Scholars as able to profit by University attendance ;

(2) The Entrance Examination in Arts at the University ; or

(3) The Preliminary Examination in Arts (with a view to the three years' course) in not less than two subjects.

2. Candidates for the Diploma must have completed attendance, and passed all the ordinary class examinations, in at least Five subjects out of the following list, viz.: *Latin, Greek, Mathematics, Logic, English Literature, Moral Philosophy, Natural Philosophy.*

3. Attendance on the Junior Classes of Latin, Greek, or Mathematics, do not qualify for the Diploma.

* When names are not given in and Fees are not paid on or before the stated dates a late Entry Fee of Ten Shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the examination until his Name is entered, the Fee paid, and all the necessary certificates, etc., lodged.

4. After completing attendance and passing the ordinary class examinations in each subject, candidates for the Diploma are required to pass a further examination in the subject of each class so attended.

5. The examinations for the Diploma, in each subject, are the same as those held for the Degree of M.A. in the corresponding subjects, but with the following differences—(1) Candidates are allowed to enter for each subject separately, instead of being obliged to take all the subjects of a Department at once; and (2) In Latin and Greek no books are prescribed, and candidates are only required to pass in the papers in Grammar, Composition, and Unseen Translation.

6. As soon as convenient after the examination in each subject, a list will be issued containing the names of all those who have passed in that subject, arranged in two classes, the lower class denoting a Pass only, the higher class a Pass with superior merit. But no certificates of having passed in single subjects are given to the candidates, until they have gone through the entire course required for the Diploma.

7. Every candidate who has attended not less than five of the classes named above, and passed the corresponding examinations, will be entitled to the Teachers' Diploma as soon as he shall produce evidence that he has received a certificate of competency as a teacher from the Education Department.

8. The Diploma shall bear that it is a Teachers' Diploma granted by the University, and issued only to such candidates as hold a Certificate of Competency from the Department; and it shall enumerate the subjects in which the bearer has given attendance and passed examinations at the University, and state in which degree of merit he has been placed in each.

9. All students who have attended or who may attend any of the Classes enumerated above, having fulfilled the necessary conditions, from and after the Session 1887-88 inclusive, will be permitted to count such attendance with a view to the Diploma; and the examinations held at the close of the Session 1887-88 and thereafter will be counted for the Diploma.

10. A register will be kept, from and after the Session 1887-88, of all Candidates entering for the Diploma, in which the names of all students passing the Teachers' Examination in any subject will be noted, with the degree of merit which they have attained in each subject.

11. The Fee for the Diploma, to be paid when the Diploma is delivered, will be £2 2s.; but no Fee will be charged upon entering for any of the Examinations.

12. Candidates for the Diploma must enter their names, and lodge the necessary certificates, etc., with the Assistant-Clerk (Matriculation Office) at the same time as candidates for the M.A. Degree, not later than the 1st October or the 10th of March respectively.

2.—GRADUATION IN SCIENCE.

Bachelor of Science.

The Senate, with the approval of the University Court, have instituted the Degree of Bachelor of Science, with two alternative courses of study.

The following regulations apply to all students who began their course in 1889 or thereafter.*

1. Candidates for a Degree of B.Sc. shall pass a Preliminary Examination in—

1. English.
2. Arithmetic, including Vulgar and Decimal Fractions and Proportion.
3. Elementary Mathematics—
 - a. Algebra, including Simple Equations.
 - b. Euclid, Books I., II., III.
- 4, 5. Any two of the following :—French, German, Latin, Greek.

The Examination in subjects 4 and 5 may be taken at the beginning of the second year, but attendance on Classes will not count towards the Degree until the Candidates shall have passed in subjects 1, 2, and 3. Candidates having the Degree of M.A. are exempted from this examination; and the possession of a Leaving Certificate in any subject entitles the holder to exemption from examination in that subject.

This Preliminary Examination takes place along with the Examination in General Education for Medical Students (see pp. 141-142). The Text-Books prescribed in the several subjects and the Examination Papers are the same in both examinations.

2. The subjects of study are as follows :—

A. IN NATURAL SCIENCE.

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Botany.
5. Zoology.
6. Astronomy.
7. Geology and Mineralogy.
8. Anatomy.
9. Physiology.

* Students who began their course previous to 1889 may qualify themselves for the Degree of B.Sc. under the old regulations which are given in the Calendars for 1884-5, and for four following sessions.

In the Department of Natural Science the course of study occupies three whole years, the Classes being taken in any order that students may find convenient.

B. IN ENGINEERING SCIENCE.

There are four alternative courses :—(a) Civil Engineering ; (b) Chemical and Mining Engineering ; (c) Mechanical and Electrical Engineering ; (d) Naval Architecture and Marine Engineering.

The courses of study are as follows :—

(a) CIVIL ENGINEERING.

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Geology.
5. Geodesy.
6. Practical Chemistry, or Physical Laboratory, with a practical examination in the work of whichever is chosen.
7. Engineering Classes I., II., and IV.
8. Engineering Drawing and Calculations.

(b) CHEMICAL AND MINING ENGINEERING.

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Geology and Mineralogy.
5. Chemical Laboratory.
6. Engineering Classes I., II., III., and IV.
7. Engineering Drawing and Calculations.

(c) MECHANICAL AND ELECTRICAL ENGINEERING.

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Geology, or Geodesy, or Practical Chemistry.
5. Physical Laboratory.
6. Engineering Classes I., III., and IV.
7. Naval Architecture, Junior.
8. Engineering Drawing and Calculations.

(d) NAVAL ARCHITECTURE AND MARINE ENGINEERING.

1. Mathematics.
2. Natural Philosophy.
3. Chemistry.
4. Chemical or Physical Laboratory, with a practical examination in the work of whichever is chosen.
5. Engineering Class III. or IV.
6. Naval Architecture, including Marine Engineering.
7. Ship Drawing and Calculations.

The qualifying courses in the several subjects are as follows :—

Mathematics.—Two sessions at least, including the Senior Class. (Students who satisfy the Professors in the Faculty of Arts that they are qualified to enter the Senior Class will be required only to attend that class.

Natural Philosophy.—Attendance for one or two sessions upon the ordinary course (according to proficiency displayed), including attendance in the Higher Department.

Chemistry.—Lectures on Systematic Chemistry.

Geology.—Lectures on Geology, and in the event of candidates taking the Mining and Chemical group, those on Mineralogy.

Geodesy.—The Lectures of the Professor of Astronomy.

Physical Laboratory.—Attendance for at least one session.

Chemical Laboratory.—Attendance for at least one session.

Practical Chemistry.—The special course of Practical Chemistry in the winter session, or the summer course of Practical Chemistry.

Engineering.—Attendance upon the courses specified under the several groups. These courses are—I. The Materials of Construction and the Elements of Applied Mechanics ; II. Surveying, Levelling, and Setting out of Works, etc. ; III. Prime Movers and the Mechanics of Machinery ; IV. Higher Applied Mechanics : the Strength of Materials and of Structures ; Hydraulics.

Engineering Drawing and Calculations.—Attendance for three sessions in the courses of Drawing and Calculations of the Professor of Engineering (one or two sessions may be omitted by students entering with sufficient previous preparation, on application being made to the Senate).

Naval Architecture and Marine Engineering.—The three courses of the Professor of Naval Architecture and Marine Engineering, except in the Mechanical Engineering group, in which the Junior Course only is required.

Ship Drawing and Calculations.—Attendance for three sessions on the courses of Drawing and Calculations of the Professor of Naval Architecture and Marine Engineering.

3. In the Department of Natural Science the Examinations are two in number, and in the subjects admitting of it shall be both practical and oral as well as in writing. Candidates must pass in all the subjects of the first before being admitted to the second.

First Examination (Spring and Autumn).—Candidates must pass in the following five subjects :—

- | | | | |
|---|------------------------|---|---------------|
| { | 1. Mathematics. | { | 3. Chemistry. |
| { | 2. Natural Philosophy. | { | 4. Botany. |
| | | { | 5. Zoology. |

The examination papers in 1 and 2 are the same as those for the examination in the Department of Mathematics for the Degree of M.A. ; the examination papers in 3, 4, and 5 are the same as those for the First Professional Examination for the Degree of M.B., with additional questions.

Second Examination (Spring).—Candidates may select any one of the following five groups :—

- I. Mathematics, Natural Philosophy.
- II. Experimental Physics, Chemistry.
- III. Astronomy, Geology, and Mineralogy.
- IV. Botany, Zoology.
- V. Physiology, Vertebrate Anatomy.

4. In the Department of Engineering Science, candidates may present themselves for examination in any one or more of the subjects of study as soon as they have attended the requisite classes.

5. No candidate shall be admitted to examination in any subject who has not attended a course of instruction in that subject recognized by the University. No student shall be admitted to the Degree of B.Sc. in this University unless he has given attendance in this University during the last two years of his curriculum, a year's attendance being constituted by at least two courses of not less than one hundred lectures each, or by one such course and two courses of not less than fifty lectures each.*

6. The successful candidates at the Examinations preceding the Final shall not receive special certificates, but a certified list shall be published in the Quadrangles, and recorded in a book kept for this purpose by the Assistant Clerk (Matriculation Office). Both lists shall be signed by the Examiners.

7. Students who have passed satisfactorily examinations on the prescribed subjects are entitled forthwith to receive the Degree of Bachelor of Science without Honours ; but they may, before taking a Degree, offer themselves for a further examination in Engineering Science, or in any of the five groups in Natural Science, with a view to Graduation with Honours ; provided always, that any student who desires to offer himself for examination, with a view to Graduation with Honours, may proceed to such examination without having previously passed the examination in those subjects for the Degree of Bachelor of Science without Honours ; and if such student, in the opinion of the Examiners, fails to attain the standard for Honours, but attains to the standard of the examination for Graduation with-

* The possession of a diploma of the Glasgow and West of Scotland Technical College, granted in accordance with the regulations contained in the Technical College Calendar for 1889-90, shall be reckoned to the holder as equivalent to the first two years' attendance at the University for the degree of B.Sc., but no holder of said diploma shall be admitted to the degree of B.Sc. unless he has given attendance in this University for not less than one year after obtaining his diploma.

out Honours, he shall be held to have passed in those subjects for the Degree of Bachelor of Science without Honours, but if he fails to attain to the standard of the examination for Graduation without Honours, he shall not be entitled to the Degree of Bachelor of Science.

8. Examinations for the Degree of M.A. are available for the Degree of B.Sc. on the candidate paying the fees for examination for that Degree, over and above any fees he may have paid as a candidate for the Degree of M.A.

9. The fee for the Preliminary Examination shall be Ten Shillings, payable when the candidate enters his name for the examination. In the Department of Natural Science a fee of £1 11s. 6d. is payable when a candidate enters his name for each of the two examinations; in the Department of Engineering Science a fee of £1 1s. is payable in each session in which the candidate is examined, till £3 3s. shall have been paid.

For Table of Fees and dates of examinations, see page 135.

Doctor of Science.

Candidates for this Degree are required to have taken the Degree of B.Sc. with honours. If from any cause honours be not taken at the time of graduation, the candidate must pass an examination equivalent to the honours examination, not sooner than one year after graduation, but the passing of this examination will not entitle him to a place in the list of Graduates with honours. Candidates who have not obtained the Degree of B.Sc. with honours are not allowed more than one opportunity of passing the equivalent examination. The fee for this examination is Two Guineas.

A candidate may present himself for the Degree of D.Sc. after the lapse of five years from the date of his taking B.Sc. with honours or of passing the equivalent examination. The candidate must furnish evidence that during that time he has been prosecuting the study of the subject in which he seeks to take the Degree of D.Sc. Candidates must be prepared to undergo examination, practical, or written, or both, on the higher departments of the subject, and must produce some original work. Separate publications or researches published in Journals, or in the Proceedings or Transactions of Scientific Societies during the five years may be presented in evidence of original work. The fee for the Degree of D.Sc. is Ten Guineas, under deduction of the fee that may have been paid for the equivalent examination.

The above regulations apply only to those who obtain the Degree of B.Sc. after session 1888-9. Applications for the Degree of D.Sc. from those who obtained the Degree of B.Sc. prior to 1888-9 shall be dealt with individually by the Senate, upon the candidate showing the grounds on which he bases his application.

TABLE OF EXAMINATIONS FOR DEGREE OF B.Sc., TO BE HELD DURING SESSION 1890-91.

Names to be given in and Fees paid to Assistant Clerk (Matriculation Office). Date.*	Fees.	Dates of Written Examinations and Hours at which the different Papers will be set. The Oral Examinations in Science follow immediately after the Written.			
18th Sept., 1890	£0 10 0	{ Wed., 1st Oct., 1890, Arithmetic, Thur., 2nd " " Elementary Mathematics, Fri., 3rd " " Greek, Sat., 4th " " }	9-11 a.m. 9-11 a.m. 9-11 a.m.	Latin,	12-2 p.m. English, French, German, Chemistry, 12-30 p.m. 12-30 p.m. 12-30 p.m. 12-30 p.m. Ship Drawing, etc., 3 p.m. Anatomy, 3 p.m.
18th Sept., 1890	£3 3 0 in all, payable as at p. 42.	{ Mon., 6th " Botany, Mon., 6th " Geology and Mineralogy, Tues., 7th " Civil Engineering, Tues., 7th " " Tues., 7th " " Tues., 7th " " Wed., 8th " Practical Chemistry, Fri., 7th Nov., " Civil Engineering, Sat., 8th " Mathematics, " Natural Philosophy, }	10 a.m. 10 a.m. 10 a.m. 10 a.m. 10-1 p.m., and 3-6 p.m. 10-1 p.m., and 2-5 p.m.	Zoology, Geodesy, Engineering Drawing, etc., Naval Architecture, Physiology,	3-5 p.m. 3-5 p.m. 3-5 p.m. 3 p.m.
11th Mar., 1891	£0 10 0	{ Wed., 25th Mar., 1891, Arithmetic, Thur., 26th " " Elementary Mathematics, Fri., 27th " " Greek, Sat., 28th " " }	9-11 a.m. 9-11 a.m. 9-11 a.m.	Latin,	12-2 p.m. English, French, German, Chemistry, 12-30 p.m. 12-30 p.m. 12-30 p.m. 12-30 p.m. Ship Drawing, etc., 3 p.m. Anatomy, 3 p.m.
11th Mar., 1891	£3 3 0 in all, payable as at p. 42.	{ Tues., 31st " Botany, Tues., 31st " Geology and Mineralogy, Wed., 1st April, " Civil Engineering, Wed., 1st " " Wed., 1st " " Wed., 1st " " Wed., 1st " " Mon., 13th " Practical Chemistry, Mon., 13th " Civil Engineering, Fri., 17th " Mathematics, Sat., 18th " Natural Philosophy, Sat., 18th " Experimental Physics, }	10 a.m. 10 a.m. 10 a.m. 10 a.m. 10-1 p.m., and 3-6 p.m. 10-1 p.m., and 2-5 p.m.	Zoology, Geodesy, Engineering Drawing, etc., Naval Architecture, Physiology,	3-5 p.m. 3-5 p.m. 3-5 p.m. 3 p.m.

* When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be admitted to examination. A Candidate is not held to be entered for the examination until his Name is entered, the Fee paid, and all the necessary Certificates, etc., lodged.

Certificate of Proficiency in Engineering Science.

Certificates of Proficiency in Engineering Science will be granted to students who shall have gone through the following course of study, practical work, and examinations, to the satisfaction of the Board of Examiners :—

Ordinary Course for the Certificate of Proficiency in Engineering Science.

[The times given refer only to the present Session.]

FIRST YEAR—

Inorganic Chemistry, 5 days weekly, - - - 10 A.M.

(*Chemical Laboratory may be taken in this or any other year, Winter or Summer Session, if selected as part of the course. See below:—Third Year.*)

Mathematics,* Lower or Upper Junior, 5 days weekly, - - - 9 A.M. or 12 noon.

Engineering, Course I., Mondays, Wednesdays, and Fridays, - - - 8 A.M.

Engineering Drawing and Calculations.

SECOND YEAR—

Natural Philosophy, { 5 days weekly, - - - 9 A.M.
Also recommended, if practicable, Tues. and Thur., - 11 A.M.

Mathematics, Senior or Upper Junior, 5 days weekly, - - - 10 A.M. or 9 A.M. or 12 noon.

Engineering, Course II., Tuesdays, Thursdays, and Saturdays, - - - 8 A.M.

Engineering Drawing and Calculations.

THIRD YEAR—

Natural Philosophy, { 5 days weekly, - - - 9 A.M.
and Tues. and Thur., - 11 A.M.

Senior Mathematics, if not previously attended, 5 days weekly, - - - 10 A.M.

Physical Laboratory, about 2 hours on 3 days weekly, or Chemical Laboratory, 5 days weekly ; or the Chemical Laboratory can be attended in any year in summer instead.

Engineering, Course IV., 5 days weekly, - 12 noon till 1 P.M.

No candidate is admitted to the special Examination for the Certificate, in any department, till he has attended the prescribed course of study in that department.

* Students who, on entering the University, show themselves qualified to enter the Senior Mathematical Class, by passing the mathematical part of the Preliminary Examination in Arts (see Preliminary Examinations in Arts) are not required to attend the Lower or the Upper Junior Class of Mathematics.

Attendance on the classes of Mathematics, Natural Philosophy, Chemistry, and Geology, in any Chartered University in the United Kingdom having the power of granting degrees, is admitted as part of the course for the above-mentioned certificate ; but all examinations for the certificate must be passed in this University.

Candidates for Certificates of proficiency in Engineering Science, who are graduates in Arts of any Chartered University of the United Kingdom, are exempted from study and examination in Mathematics and Natural Philosophy.

The Fee for the Certificate in Engineering Science is One Guinea.

3.—HIGHER DEGREES IN LETTERS AND PHILOSOPHY.

The Senate having had under consideration proposals for the Degrees of Doctor in Letters (D.Litt.), and Doctor in Philosophy (D.Phil.), are of opinion that these Higher Degrees should be instituted in the University. It is not clear, however, that the University itself has power to institute those Degrees. The Senate have had negotiations with the University of Edinburgh regarding this matter, and are glad to be able to say that the two Universities are in substantial agreement on this subject, and also as to the conditions on which the degrees should be conferred. The Senate trust that they may be in a position at an early period, in conjunction with the University of Edinburgh, to bring the matter before the Universities Commissioners who have been appointed under the Act of 1889, with a view to a final determination. Meanwhile the Senate are desirous of stating the conditions on which they have resolved that the Higher Degrees should be conferred, in order that candidates who are looking forward to them may be aware of the terms on which they will be granted. These conditions are as follows :—

(1) That the degrees of D.Litt. and D.Phil. should be open to those who have graduated with first or second class honours in Classics or Philosophy respectively ; and to those who at a period subsequent to their taking the M.A. degree have passed an examination equivalent to the examination for honours. (This last provision is introduced to meet the case of those who have been prevented by ill-health, or other causes, from taking honours at the proper time.)

(2) That the degrees of D.Litt. and D.Phil. should be open to graduates with honours five years after the date of graduation as M.A., and in the case of ordinary graduates the date of passing an examination equivalent to the examination for honours.

(3) That every candidate for the degree of D.Litt. or of D.Phil. should be required to state what line of study or investigation he has followed since taking the degree of M.A. and to submit a thesis

upon a subject approved by the Senate, and, in addition, to undergo an examination in some special branch of his department of Arts; and that in such thesis and examination he should be expected to give proof of special study or original research, and that the claims of each candidate should be specially reported on by two Professors or other qualified persons before the degree is conferred.

(4) That in special cases, when the candidate is able to refer to a book or other publication in which he has made important contributions to the knowledge of his subject, the Senate should, if they see fit, dispense with the test of examination; but that in all such cases a special Committee should be appointed to report on the claims of the candidates, and the Senate should confer the degree only on the recommendation of such Committee.

(5) That in addition to the examinations in Arts, examinations should be instituted in English Language and Literature, in Oriental Languages, and in any other subjects which may in future be embraced in any department of the M.A. degree; and that candidates who have taken that degree, and who in such examinations have attained a standard of proficiency corresponding to that of first or second class honours in Arts, should be entitled to become candidates for the degree of D.Litt., by thesis and examination, on the same terms with those who have passed with honours in Arts.

The above rules sufficiently indicate the general plan of the Examinations for the Higher Degrees; but by way of showing more exactly their nature, the following subjects may be suggested:—

FOR THE DEGREE OF D.LITT. IN CLASSICS.

A candidate for the degree of Doctor of Letters, who founds his claim on attainments in Classical Scholarship, will be required to send in a thesis, embodying the results of original work in some one of the following departments:—

- | | | |
|------------------------|--|----------------|
| 1. Ancient Philosophy. | \| | 3. Archæology. |
| 2. History. | \| | 4. Language. |

The Classical Examination for the degree of Doctor of Letters shall include:—

1. Passages for translation, selected from the best Greek and Latin authors. No authors shall be specially set for a given occasion, but the examiners shall be free to choose the passages from the whole range of the Classical Literatures.

2. Passages for translation from English into Greek and Latin Prose.

Passages for translation from English into Greek and Latin verse. But a candidate who does not take up Verse Composition shall have

some other exercise appointed for him ; viz., an essay, or such other alternative as the examiners may approve.

3. Questions on Greek Grammar and Criticism. Questions on Latin Grammar and Latin Criticism.

4. Questions on Greek History (including the History of Literature) and Greek Antiquities. Questions on Roman History (including the History of Literature) and Roman Antiquities.

FOR THE DEGREE OF D.LITT. IN ORIENTAL LANGUAGES.

Semitic Branch.

Subjects proposed for examination in Semitic Philology :—

1. *Hebrew*.—The Books of Isaiah and Psalms. Translation into Hebrew.

2. *Syriac*.—The Gospels and the Acts of the Apostles in the Peshitâ Version. Translation into Syriac.

3. *Arabic*.—The three first Suras of the Koran. The book of Proverbs in Van Dyck's version of the Bible. Translation into Arabic.

FOR THE DEGREE OF D.PHIL. IN PHILOSOPHY.

1. The Philosophy of Aristotle. The candidate should be expected to show direct acquaintance with the Philosophical works of Aristotle ; and with the views of the most important of the modern critics of his philosophy.

2. Mediæval Philosophy ; its origin, development, and influence on modern thought, philosophical and theological.

3. The relation of Logic and Metaphysics—with special reference to the *Organon* and Metaphysics of Aristotle and modern systems of Logic, including the Logic of Hegel. Candidates should be expected to show thorough acquaintance with the discussions upon the nature of knowledge by modern authors.

4. Modern Psychology. Candidates should be expected to show acquaintance with the whole development of Psychology from the time of Kant ; and to have studied the discussions on Psychophysics which have taken place up to the present time.

5. Modern Ethics—with special reference to the application of the idea of Development to Ethics. Candidates should be expected to show a thorough knowledge of the discussions of this subject up to the present time.

6. Philosophy in Britain from Locke to the present time.

4.—GRADUATION IN MEDICINE.

Three Medical Degrees are conferred by this University, viz. : —Bachelor of Medicine (M.B.) ; Master in Surgery (C.M.) ; and Doctor of Medicine (M.D.) ; all of which are recognized by the Medical Acts as qualifying for practice throughout the British dominions, and for admission to the Army, Navy, and Public Medical Service.

The Degrees of Bachelor of Medicine and Master in Surgery may be obtained by Candidates of the age of 21 years who have complied with the regulations as to Education and Examination.

The Degree of Master in Surgery shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Medicine, nor shall the Degree of Bachelor of Medicine be conferred on any one who does not at the same time obtain the Degree of Master in Surgery.

The following rules and directions apply to the Degrees of Bachelor of Medicine and Master in Surgery :—

A.—EXAMINATION OF MEDICAL STUDENTS IN GENERAL EDUCATION AND REGISTRATION BY THE MEDICAL COUNCIL.

The Candidate for the Degrees of Bachelor of Medicine and Master in Surgery must have been registered in the books of the General Medical Council at least four years prior to the date of his graduation. Students should see to registration without delay, as considerable trouble and disappointment have sometimes arisen through ignorance or neglect of this requirement. In order to be so registered he must transmit to James Robertson, Esq., the Scottish Branch Registrar, 1 George Square, Edinburgh, together with a printed form of application which may be obtained from the Assistant Clerk (Matriculation Office), a certificate of having passed a satisfactory Preliminary Examination in English, Latin, Arithmetic, the Elements of Mathematics, and the Elements of Mechanics, along with one of the following subjects, viz., French, German, Greek, or Logic.

A Degree in Arts (not being an Honorary Degree) of any of the Universities of England, Scotland, and Ireland, and also a Degree in Arts of any Colonial or Foreign University which may for this purpose have been specially recognized by the University Court, shall exempt Candidates from all preliminary examination.

The Examination in General Education may be passed either in this University* or at any University or Board of which the

* A Local Centre in connection with this Examination has been established in the University College of North Wales, Bangor. Candidates who prefer to sit for examination there must intimate their desire when returning schedule of entry to Glasgow. Such Candidates are required, on taking their seats at Bangor, to pay to the College Authorities there a special fee of 5s. This is in addition to the ordinary fee of 10s., payable at Glasgow, as mentioned at page 150. The Examinations are held simultaneously in Bangor and Glasgow.

examinations are recognized by the General Medical Council as entitling to registration.* But while a Certificate of having passed any recognized Preliminary Examination entitles to registration in the books of the General Medical Council, the University only accepts these Examinations *pro tanto*, and exacts examination in every case on such subjects required by the regulations of the University as are not embraced in the certificates presented from other Examining Boards, or which, though included therein, are not of similar extent to the same subjects as prescribed by the University. In such cases this Examination required by the University must be passed by the Candidates before enrolment for their First Professional Examination.

This registration in the books of the Medical Council, which is imperative on Candidates for any legal qualification to practise whatsoever, is quite distinct from Matriculation or other registration of students in the books of the University.

The following is a more detailed notice of the subjects of the Examination in General Education referred to above :—

I. Registration Subjects.—The Student must pass in all the subjects of this division before Registration with the Branch Registrar of the Medical Council. The subjects may be passed at one or more Examinations. For fees and dates of this Examination see page 17—

1. ENGLISH.—(1) Writing correctly a passage to dictation. (2) Composition of a short essay on a given theme. (3) Questions on Grammar, with analysis of sentences and the derivation and meaning of some common English words.
2. LATIN.—Virgil, *Æneid*, Book III., and Cæsar *de Bello Gallico*, Book V. Translations from the above. Translation of passages from works not prescribed, and of English passages into Latin,—the principal Latin words being supplied. Questions on Grammar and Construction.
3. ARITHMETIC.—The Common Rules, including Vulgar and Decimal Fractions.
4. ELEMENTS OF MATHEMATICS.—
 (a) Algebra (including Simple Equations), and Euclid, Book I.
 (b) Euclid, Books II. and III.†
5. ELEMENTARY MECHANICS OF SOLIDS AND FLUIDS.—
 Elementary Kinematics, Statics, Kinetics, and Hydrostatics.
 Text-books — Bottomley's Dynamics (Collins' Series);
 Blaikie's Elements of Dynamics.

* For a list of such Examining Boards, see p. 151.

† The subjects under (b) are not required for Registration; they may be passed at the same time as those under (a) or at a subsequent Examination, BUT THEY MUST BE PASSED BEFORE THE FIRST PROFESSIONAL EXAMINATION.

6. ANY one of the following :—Greek, French, German, Logic, as prescribed under II. (Optional subjects for M.B. and C.M.)

In addition to the above-mentioned Preliminary Examination, Candidates for the Degrees of Bachelor of Medicine and Master in Surgery are required to undergo, PREVIOUS TO THEIR FIRST PROFESSIONAL EXAMINATION (and, it is recommended, as far as possible previous to the commencement of professional study), an examination in one of the following, other than the one selected under 6 above : Greek, French, German, Higher Mathematics, Natural Philosophy, Logic, Moral Philosophy, as detailed below.

II. Optional Subjects for M.B. and C.M.—

1. GREEK.—*Memorabilia* of Xenophon, Book I., and the Gospel according to St. Luke. Translation of passages from works not prescribed, and of English passages into Greek—the principal Greek words being supplied. Questions on Grammar.
2. FRENCH.—Montesquieu's *Considérations sur les causes de la grandeur des Romains, et de leur decadence*. Translation and exercises as in the Latin and Greek.
3. GERMAN.—Schiller's *Wilhelm Tell*. Translation and exercises as in the other languages.
4. HIGHER MATHEMATICS.—Euclid, Books I. to VI.; Algebra, including Quadratic Equations, and the Rudiments of Trigonometry.
5. NATURAL PHILOSOPHY.—Everett's *Elementary Text-Book of Physics* (Chapters on Sound and Heat) or Part II. of Todhunter's *Natural Philosophy for Beginners*, viz., Sound and Heat, omitting chapters xii. xiii. in Sound, and in Heat from sec. 732 to 746.
6. LOGIC.—Jevons' *Elementary Lessons on Logic*.
7. MORAL PHILOSOPHY.—Herbert Spencer's *Data of Ethics*.

A certificate of having passed, at the Examinations for the Degree of M.A., or B.Sc., in English, Latin, Mathematics, Natural Philosophy, Greek, Logic, or Moral Philosophy, will be accepted instead of examination in the subjects marked A, B, C, D, E, F, G, respectively.

III. Subjects for Degree of M.D.—The Candidate for the Degree of M.D., if not a graduate in Arts, must have passed a satisfactory Examination in Greek and in Logic or Moral Philosophy, and in one at least of the following subjects, viz.:—French, German, Higher Mathematics, Natural Philosophy, and Natural History.

B.—PROFESSIONAL EDUCATION.

1. *Duration and Constitution of the Curriculum.*—No one shall be admitted to the Degree of Bachelor of Medicine or Master in Surgery, who has not been engaged in medical and surgical study for four years,—the medical session of each year, or *Annus Medicus*, being constituted by at least two courses of not less than one hundred lectures each, or by one such course and two courses of not less than fifty lectures each; but in the case of the Clinical Courses, it shall be sufficient that the lectures be given at least twice a week during the prescribed periods.

One at least of the four years of medical and surgical study above required must be in the University of Glasgow.

Another of such four years must be either in the University of Glasgow, or in some other University entitled to give the degree of Doctor of Medicine.

Attendance during at least six winter months on the medical or surgical practice of a general hospital which accommodates at least eighty patients, and during the same period on a course of Practical Anatomy, may be reckoned as one of such four years; and to that extent shall be held equivalent to one year's attendance on courses of lectures, as above prescribed.

One year's attendance on the Lecturers or Teachers of Medicine in the Hospital Schools of London, or in the School of the College of Surgeons in Dublin, may be reckoned as one of such four years; and to that extent shall be held as attendance on courses of lectures as above prescribed.

Attendance on the lectures of any private Teacher or Teachers of Medicine whose lectures have, by regulation of the University Court, with consent of the Chancellor of the University, been recognized for the purpose of graduation in the University, may be reckoned in place of the year's attendance last above mentioned, or as part thereof, as the case may be.

Candidates may, to the extent of four of the departments of medical study enumerated in "required courses of instruction," attend in such year or years of their medical and surgical studies as may be most convenient to them, the lectures of the Teachers of Medicine specified in the two immediately preceding paragraphs.*

All Candidates availing themselves of the permission to attend the lectures of private Teachers, and not being at the time matriculated students of the University, must, at the commencement of the year of such attendance, enrol their names in a book kept by the University for that purpose, paying a fee of one-half the amount of the matriculation fee paid by students of the Univer-

* In Provincial Medical Schools where there are no Lecturers recognized by the University Court, a Candidate can complete only one *Annus Medicus*, constituted by attendance at a General Hospital accommodating not fewer than 80 patients, along with a course of Practical Anatomy.

sity; but they shall not be thereby entitled to any of the privileges of a matriculated student of the University.

The fee for attendance on the lectures of any private Teacher, with a view to graduation, shall not be of less amount than that exigible by Medical Professors of the University for the same course of instruction. (*The fees must be paid at the commencement of the course.*)

No attendance on Lectures shall be reckoned, if the Teacher gives instruction in more than one of the prescribed branches of study, except in those cases where Professors of the University are at liberty to teach more than one branch.

2. *Required Courses of Instruction.*—Every Candidate for the Degrees of Bachelor of Medicine and Master in Surgery shall give sufficient evidence by certificates:—

(1.) That he has studied each of the following departments of medical science, viz. :—

ANATOMY, - - - - -

CHEMISTRY, - - - - -

MATERIA MEDICA and PHARMACY,

INSTITUTES OF MEDICINE or PHYSIOLOGY, - - - - -

PRACTICE OF MEDICINE, - - -

SURGERY, - - - - -

MIDWIFERY and the DISEASES peculiar to WOMEN and CHILDREN; two courses of Midwifery, of three months each,* being reckoned equivalent to a six months' course, provided different departments of Obstetric Medicine be taught in each of the courses,

PATHOLOGICAL ANATOMY, during a three months' course of lectures, together with a supplemental course of Practice of Medicine or Clinical Medicine; or a course of not less than one hundred lectures on General Pathology,

PRACTICAL ANATOMY, - - -

PRACTICAL CHEMISTRY, - - -

PRACTICAL MIDWIFERY, - - -

During courses including not less than one hundred lectures.

Six months.

Three months.

Three months on the indoor practice of a Lying-in Hospital, or presence at not less than twelve labours, at least three of which must be conducted personally by the candidate under the direct supervision of a Registered Practitioner.

* The Fee for each course of Midwifery of three months is £2 2s.

CLINICAL MEDICINE, - - -	{	During courses of six months, or two courses of three months; lectures being given at least twice a week.
CLINICAL SURGERY, - - -		
MEDICAL JURISPRUDENCE, - - -	{	During courses including not less than fifty lectures.
BOTANY, - - - - -		
ZOOLOGY with COMPARATIVE AN-		
ATOMY, - - - - -		

(2.) That he has attended for at least two years the medical and surgical practice of a general hospital, either at Glasgow or elsewhere, which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons.

(3.) That he has attended, during a course of not less than fifty hours' instruction, the class of Practical Materia Medica in the University of Glasgow; or a similar class in a University or School of Medicine, attendance on which is recognized by the Ordinance; or a similar class conducted by a teacher recognized by the University Court under the Ordinance; or, that he has been engaged for at least three months, by apprenticeship or otherwise, in compounding and dispensing drugs at the laboratory of an hospital, dispensary, member of a Surgical College or Faculty, of a licentiate of the London or Dublin Society of Apothecaries, or of a member of the Pharmaceutical Society of Great Britain. [Students are recommended to take the class of Pharmacology and Practical Pharmacy in the summer before their attendance on the course of Materia Medica; but attendance on such a course cannot be substituted for attendance on the course of systematic Lectures on Materia Medica, which must be taken before the third Professional Examination.]

(4.) That he has attended for at least six months, by apprenticeship or otherwise, the out-practice of an hospital, or the practice of a dispensary, or of a physician, surgeon, or member of the London or Dublin Society of Apothecaries.

VACCINATION.—The candidate must produce a certificate from a recognized Vaccination department in an hospital, dispensary, or other public institution, that he has performed the operation successfully under the Teacher's supervision; that he is familiar with the different stages of the vaccine vesicle, and with the mode of preserving lymph, and is generally well instructed in the subject.*

* The recognized Vaccine Departments in Glasgow are—Western Infirmary, Royal Infirmary, and Faculty of Physicians and Surgeons.

C.—PROFESSIONAL EXAMINATIONS.

By orders of Her Majesty in Council, dated 13th August, 1877, 23rd August, 1883, 27th January, 1885, and 26th March, 1885, the following are the arrangements for Professional Examinations:—

1. Every candidate for the Degrees of Bachelor of Medicine and Master in Surgery shall be examined both in writing and *viva voce*, First, on Chemistry, Botany, and Natural History; Second, on Anatomy and Physiology; Third, on Regional Anatomy, and Materia Medica and Pharmacy; and Fourth, on Surgery, Clinical Surgery, Medicine, Clinical Medicine, Pathology, Midwifery, and Medical Jurisprudence. The Examination in Chemistry shall include Practical Chemistry; and the Examinations in Anatomy and Physiology shall include Practical Anatomy, Histology, and Practical Physiology; and the Examination in Surgery shall include Operative Surgery.
2. Students may appear for examination in the first of the foregoing divisions of subjects who have completed their attendance on the required courses during one winter and one summer session: provided always that students shall not be admitted to such examination at an earlier date than the period of examination immediately preceding their second winter session of professional study; and that students who commenced their medical studies in the summer session shall not be admitted to a degree in medicine unless their course of study, subsequent to the completion of the summer session in which they commenced their medical studies, shall not be less than the minimum course of four years prescribed by this Ordinance.
3. Students who have passed the first examination may appear for examination in the second division of subjects, after having completed their attendance on the requisite courses (including those of the subjects of examination) after the lapse of two winter and three summer sessions from the time of the commencement of their studies; provided always that students who have commenced their medical studies with a winter session may appear for examination in the second division of subjects after the lapse of two winter and two summer sessions from the time of the commencement of their studies.
4. Students who have passed the two previous examinations may appear for examination in the third division of subjects at any of the terms fixed for examination by the Senate, after the conclusion of the third winter session of attendance upon Medical Classes (including those of the required subjects).

5. Students who have passed the examinations in the subjects of the three previous divisions may appear for examination in the subjects of the fourth division at the first term for the final examination after the conclusion of their Curriculum of study.

In addition, the following regulations will be observed :—

1. The examinations will be conducted by written papers and by oral examinations. A practical knowledge of the subject is also required.
2. Candidates must produce certificates of satisfactory attendance on the courses belonging to each division before presenting themselves for these examinations, and no candidate is allowed to enrol himself for the Second, Third, or Fourth examination without having passed the immediately preceding examination.
3. Previous to appearing for the final examination the candidate must produce a declaration in his own handwriting that on the day of graduation, he will have completed his twenty-first year and will not be under articles of apprenticeship.
4. At the professional examinations, candidates will as far as possible be examined orally in the alphabetical order of their surnames.
5. If any Candidate, on examination, be found unqualified, he shall not be again admitted to examination unless he shall have completed another year of medical study, or such portion of another year as may be fixed by the examiners when he is found unqualified.

The examinations are conducted by the Professors of the Faculty of Medicine, together with the other Examiners appointed by the University Court.

For Table of Fees and dates of examinations see page 150.

D.—DEGREE OF DOCTOR OF MEDICINE.

The Degree of Doctor of Medicine may be conferred on any candidate who has obtained the degree of Bachelor of Medicine, and is of the age of twenty-four years, and has been engaged, subsequently to his having obtained the degree of Bachelor of Medicine, for at least two years in attendance on an hospital, or in the Military or Naval medical service, or in medical or surgical practice : Provided always that the degree of Doctor of Medicine shall not be conferred on any person, unless he be a graduate in Arts within the fifth section of the Ordinance, or unless he shall have passed a satisfactory examination in Greek, and in Logic or Moral Philosophy, and in one, at least, of the following subjects, namely, French, German, Higher Mathematics, Natural Philosophy, and Natural History. Provided also that each candidate for

the degree of Doctor of Medicine shall present an Inaugural Dissertation composed by himself to be approved by the Senatus Academicus. Such Dissertations or Theses* must be lodged with the Assistant Clerk (Matriculation Office), on or before 20th March, 20th June, or 20th October. No Thesis will be approved unless it gives evidence of original observation, or, if it deal with the researches of others, gives a full statement of the literature of the question, with accurate references and critical investigation of the views or facts cited: mere compilations will in no case be accepted. The fees for the Degree of M.D. amount to £15, 8s. (including the sum of £10, 3s. for Government stamp, etc.).

E.—REGULATIONS FOR OBTAINING A DIPLOMA IN PUBLIC HEALTH.

A special Examination will be held once in every year in subjects relating to Public Health, and will commence on the third Tuesday in October. Candidates may be admitted to examination before they have obtained a qualification to practice Medicine and Surgery, but in no case shall the Diploma be granted till the candidate is registered under the Medical Acts.

Candidates must produce evidence that they have attended a Course of Lectures in which special instruction was given on Public Health, and that they have attended a Course of Analytical Chemistry specially bearing upon the subjects of examination. Candidates who have not passed an *Annus Medicus* in the University of Glasgow must, before presenting themselves for examination, have attended as Matriculated Students in this University at least two Courses of instruction, scientific or professional, bearing on the subjects of the examination. The examinations shall be written, oral, and practical.†

The fee for this examination shall be Five Guineas. No candidate shall be admitted to examination unless he shall have given notice of his intention to the Assistant Clerk (Matriculation Office), and paid the required fee, at least One Calendar Month previous to the examination.

If, after payment of the fee, a candidate withdraw his name, or fail to present himself at the examination, or fail to pass it, the fee shall not be returned to him, but he shall be allowed to

* Candidates are requested to have their Theses bound before sending them in.

† For registration of Diploma in Public Health, the following rules have been laid down by the General Medical Council:—

A period of not less than twelve months shall elapse between the attainment of a first registrable qualification in Medicine, Surgery, and Midwifery, and the examination for a Diploma in Sanitary Science, Public Health, or State Medicine.

Every Candidate shall have produced evidence of having attended, after obtaining a registrable qualification, during a period of six months, practical instruction in a laboratory approved of by the Body granting the qualification.

enter for *one* subsequent examination in subjects relating to Public Health without the payment of an additional fee.

The examination for the Diploma in Public Health shall embrace the following subjects:—

Duties of Health Officer. Air and Ventilation. Food and its Adulterations. Water and Water Supply. Sewerage and Drainage. Construction of Hospitals, Public Buildings, and Dwellings. Overcrowding. Manufactories. Insalubrious Trades. Cemeteries. Nuisances. Quarantine. Disinfectants and Deodorizers. Outbreaks of Zymotic Diseases. Climate, Topographical and Seasonal ; its influences in relation to Health and Disease. Geographical Distribution of Diseases. Knowledge of leading Sanitary Acts of Parliament. Vital Statistics.

The following are recommended as books for study :—

E. Parkes, *Practical Hygiene* ; George Wilson, *Handbook of Hygiene* ; A. H. Hassal, *On Food and its Adulterations*.

N.B.—Lectures on Public Health will be delivered in this University during each Winter Session, commencing in Session 1890-1, on 5th January.

Further information with regard to the Lectures on Public Health and the Examinations for the Diploma may be obtained from DR. P. A. SIMPSON, Professor of Medical Jurisprudence, University of Glasgow.

F.—GRADUATION.

The terms for conferring Medical and Surgical Degrees are 1st May, 31st July, and second last Thursday of November.

Candidates proceeding to Graduation, if not already Members of the General Council of the University, are required by the Act, 44 and 45 Vict. Ch. 40, to pay to the Registrar of the General Council the Registration Fee, and furnish to him the particulars required for their enrolment in the General Council. This should in all cases be done at least two clear days before the day of Graduation.

In accordance with the Promissory Oaths Act, 1868, a Declaration in the following English form is now substituted for the Latin Oath, or Sponsio Academica, formerly required to be taken and subscribed by every Candidate on Graduation :—

I do solemnly and sincerely declare, that, as a Graduate in Medicine of the University of Glasgow, I will exercise the several parts of my profession, to the best of my knowledge and abilities, for the good, safety, and welfare of all persons committing themselves, or committed to my care and direction ; and that I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice, for any consideration, or from any motive whatever. And I further declare, that I will keep silence as to anything I have seen or heard while visiting the sick which it would be improper to divulge. And I make this solemn declaration in virtue of the Provisions of the Promissory Oaths Act, 1868, substituting a Declaration for Oaths in certain cases.

LIST OF EXAMINING BODIES WHOSE EXAMINATIONS FULFIL THE CONDITIONS OF THE MEDICAL COUNCIL AS REGARDS PRELIMINARY EDUCATION.

N.B.—The Certificates of these Bodies admit to matriculation and study in the University of Glasgow ; but Candidates for Degrees must conform to the regulations of the University as laid down under A, page 140.

I.—Universities in the United Kingdom.

UNIVERSITY OF OXFORD.—(1) Junior Local Examinations ; Certificate to include Latin and Mathematics, and also one of the following optional subjects :—Greek, French, German. (2) Senior Local Examinations ; Certificate to include Latin and Mathematics. (3) Responsions. (4) Moderations. (5) Examination for a Degree in Arts.

UNIVERSITY OF CAMBRIDGE.—(6) Junior Local Examinations ; Certificate to include Latin and Mathematics, and also one of the following optional subjects :—Greek, French, German. (7) Senior Local Examinations ; Certificate to include Latin and Mathematics. (8) Higher Local Examinations. (9) Previous Examination. (10) Examination for a Degree in Arts.

UNIVERSITY OF DURHAM.—(11) Examination for Certificate of Proficiency. (12) Examination for Students at the end of their first year. (13) Examination for a Degree in Arts.

UNIVERSITY OF LONDON.—(14) Matriculation Examination. (15) Preliminary Scientific (M.B.) Examination. (16) Examination for a Degree in Arts or Science.

VICTORIA UNIVERSITY.—(17) Preliminary Examination ; Latin to be one of the subjects. (18) Entrance Examination in Arts, to include all the subjects required.

UNIVERSITY OF EDINBURGH.—(19) Local Examinations (Junior Certificate) ; Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects :—Greek, French, German. (20) Local Examinations (Senior Certificate) ; Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects :—Greek, French, German. (21) Preliminary Examination for Graduation in Science or Medicine and Surgery. (22) Examination for a Degree in Arts.

UNIVERSITY OF ABERDEEN.—(23) Local Examinations (Junior Certificate) ; Certificate to include all the subjects required. (24) Local Examinations (Senior Certificate) ; Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects :—Greek, French, German. (25) Preliminary Examination for Graduation in Medicine and Surgery. (26) Examination for a Degree in Arts.

UNIVERSITY OF GLASGOW.—(27) Local Examinations (Junior Certificate) ; Certificate to include all the subjects required. (28) Local Examinations (Senior Certificate) ; Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects :—Greek, French,

German. (29) Preliminary Examination for Graduation in Medicine and Surgery. (30) Examination for a Degree in Arts.

UNIVERSITY OF ST. ANDREWS.—(31) Local Examinations (Senior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (32) Local Examinations (Junior Certificate), to include all the subjects required. (33) Preliminary Examination for Graduation in Medicine and Surgery. (34) Examination for a Degree in Arts.

UNIVERSITY OF DUBLIN.—(35) Public Entrance Examination. (36) General Examination at end of Senior Freshman year. (37) Examination for a Degree in Arts.

QUEEN'S UNIVERSITY IN IRELAND.—(38) Local Examinations for Men and Women; Certificate to include all the subjects required by the General Medical Council. (39) Entrance or Matriculation Examination. (40) Previous Examination for B.A. Degree. (41) Examination for a Degree in Arts.

ROYAL UNIVERSITY OF IRELAND.—(42) Matriculation Examination; (43) Examination for a Degree in Arts.

OXFORD AND CAMBRIDGE SCHOOLS' EXAMINATION BOARD.—(44) Certificate to include the following subjects, an adequate knowledge of English Grammar and Orthography, as shown in the course of the Examination, to the satisfaction of the Examiners, being held as conforming to the requirements of the Medical Council in regard to those subjects:—Arithmetic, including Vulgar and Decimal Fractions; Algebra, including Simple Equations; Geometry, including the first two books of Euclid; Latin, including Translation and Grammar. Also one of these optional subjects:—Greek, French, German.

II.—Other Bodies named in Schedule (A) to the MEDICAL ACT, 1858.

APOTHECARIES' SOCIETY OF LONDON.—(45) Examination in Arts.

ROYAL COLLEGES OF PHYSICIANS AND SURGEONS OF EDINBURGH.—(46) Preliminary (combined) Examination in General Education, conducted by the Educational Institute of Scotland.

FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW.—(47) Preliminary Examination in General Literature.

ROYAL COLLEGE OF SURGEONS IN IRELAND.—(48) Preliminary Examination; Certificate to include Mathematics.

III.—Examining Bodies, in the United Kingdom, not included in Schedule (A) to the MEDICAL ACT (1858).

COLLEGE OF PRECEPTORS.—(49) Examination for a First-Class Certificate, or Second-Class Certificate of First or Second Division, Algebra, Geometry, Latin, and a Modern Language, having been taken.

- QUEEN'S COLLEGE, BELFAST.—(50) Matriculation Examination.
QUEEN'S COLLEGE, CORK.—(51) Matriculation Examination.
QUEEN'S COLLEGE, GALWAY.—(52) Matriculation Examination.
INTERMEDIATE EDUCATION BOARD OF IRELAND.—(53) Junior Grade Examination. (54) Middle Grade Examination. (55) Senior Grade Examination. Certificate in each case to include all the subjects required by the General Medical Council.
ST. DAVID'S COLLEGE, LAMPETER.—(56) Responsions Examination, to include all the subjects required.
EDUCATIONAL INSTITUTE OF SCOTLAND.—(57) Preliminary Medical Examination.
PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.—(58) Preliminary and Minor Examinations *pro tanto*.
PHARMACEUTICAL SOCIETY OF IRELAND.—(59) Preliminary Examination *pro tanto*.
SCHOOLS LEAVING CERTIFICATES.—(60) Three Grades.
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IV.—Indian, Colonial, and Foreign Universities and Colleges.

- UNIVERSITY OF CALCUTTA.—(61) Entrance Examination ; Certificate to include Latin.
UNIVERSITY OF MADRAS.—(62) Entrance Examination ; Certificate to include Latin.
UNIVERSITY OF BOMBAY.—(63) Entrance Examination ; Certificate to include Latin.
CEYLON MEDICAL COLLEGE.—(64) Preliminary Examination (Primary Class).
UNIVERSITY OF M'GILL COLLEGE, MONTREAL.—(65) Matriculation Examination.
UNIVERSITY OF BISHOP'S COLLEGE, MONTREAL.—(66) Matriculation Examination.
UNIVERSITY OF TORONTO.—(67) Matriculation Examination.
UNIVERSITY OF TRINITY COLLEGE, TORONTO.—(68) Matriculation Examination.
UNIVERSITY OF QUEEN'S COLLEGE, KINGSTON.—(69) Matriculation Examination.
UNIVERSITY OF VICTORIA COLLEGE, UPPER CANADA.—(70) Matriculation Examination.
WESTERN UNIVERSITY OF ONTARIO.—(71) Entrance Examination in Medicine ; Certificate to include all the subjects required for registration.
COLLEGE OF PHYSICIANS AND SURGEONS OF ONTARIO.—(72) Preliminary Examination ; Certificate to include all the subjects required for registration.
UNIVERSITY OF MANITOBA.—(73) Previous Examination.

- UNIVERSITY OF FREDERICTON, NEW BRUNSWICK.—(74) Matriculation Examination.
- UNIVERSITY OF MOUNT ALLISON COLLEGE, NEW BRUNSWICK.—(75) Examination for a Degree in Arts.
- UNIVERSITY OF KING'S COLLEGE, NOVA SCOTIA.—(76) Matriculation Examination. (77) Responsions.
- UNIVERSITY OF HALIFAX, NOVA SCOTIA.—(78) Matriculation Examination.
- DALHOUSIE COLLEGE AND UNIVERSITY, HALIFAX, NOVA SCOTIA.—(79) Matriculation and Sessional Examinations.
- PROVINCIAL MEDICAL BOARD OF NOVA SCOTIA.—(80) Matriculation Examination.
- UNIVERSITY OF CALIFORNIA.—(81) Examination in Department of Letters.
- UNIVERSITY OF MELBOURNE.—(82) Matriculation Examination.
- UNIVERSITY OF SYDNEY.—(83) Matriculation Examination.
- UNIVERSITY OF ADELAIDE.—(84) Matriculation Examination or its substitute; (85) the Senior Public Examination; (86) Junior Public Examination; Certificate to include all the subjects required for registration.
- TASMANIAN COUNCIL OF EDUCATION.—(87) Examination for the Degree of Associate of Arts; Certificate to include Latin and Mathematics.
- UNIVERSITY OF THE CAPE OF GOOD HOPE.—(88) Matriculation Examination. (89) Examination for a Degree in Arts.
- UNIVERSITY OF OTAGO.—(90) Preliminary Examination.
- UNIVERSITY OF NEW ZEALAND.—(91) Entrance Examination.
- CHRIST'S COLLEGE, CANTERBURY, NEW ZEALAND.—(92) Voluntary Examinations. Certificate to include all the subjects required by the General Medical Council.
- CODRINGTON COLLEGE, BARBADOES.—(93) English Certificate for Students of two years' standing, and Latin Certificate or "Testamur."
- GERMANY AND OTHER CONTINENTAL COUNTRIES.—(94) Gymnasial Abiturienten-Examen, and other corresponding Entrance Examinations to the Universities.
- GYMNASIA OF THE CIRCUIT OF DORPAT.—(95) Examinations of Maturity.

5.—GRADUATION IN LAW.

Degrees of Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.).

Two Degrees in Law are conferred, after examination, by the University of Glasgow, viz., Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.).

By regulation of the Faculty of Advocates, any one who has obtained the Degree of LL.B. from a Scottish University is held qualified in General Scholarship and Law with a view to admission to the Bar, without examination or other evidence of such qualification.

By the Law Agents Act, 36 and 37 Vict., c. 63, the holder of a Degree in Law or in Arts of a University in Great Britain or Ireland, granted after examination, is qualified to apply for admission as a Law Agent after an apprenticeship of three years, instead of five, as required in the ordinary case; and by act of Sederunt of 20th July, 1878, any applicant who holds the Degree of LL.B. or of B.L. of any Scottish University is exempted from any examination in Law before the Examiners of Law Agents, excepting only on forms of Process, Civil and Criminal.

The conditions on which the Degree of LL.B. is now conferred are regulated by ordinance of the Universities Commissioners, No. 75, the principal provisions of which are the following:—

I. No one shall hereafter be admitted as a candidate for the Degree unless he be a graduate in Arts of a recognized University.

II. The course of study in Law necessary for the degree of Bachelor of Laws shall extend over three academical years, and shall include attendance on a distinct course in each of the six following departments, viz. :—

1. CIVIL LAW, - - - - -	} During Courses of not less than Eighty Lectures each.
2. LAW OF SCOTLAND, - - - - -	
3. CONVEYANCING, - - - - -	
4. PUBLIC LAW, - - - - -	
5. CONSTITUTIONAL LAW AND HISTORY, - - - - -	} During Courses of not less than Forty Lectures each.
6. MEDICAL JURISPRUDENCE, - - - - -	

III. No one shall be admitted as a candidate for this Degree in any University unless two at least of the three academical years of his course of study in Law shall have been in such University.

IV. Candidates for the Degree of Bachelor of Laws shall be examined, both in writing and *viva voce*, on each of the six departments of Law above specified.

V. The Examiners, in judging of the qualifications of candidates, shall have special regard to their acquirements in the two departments of Public Law and Constitutional Law and History.

VI. The Examiners for Degrees in Law in each University shall be six in number, and there shall always be one Examiner specially qualified for each one of the six departments above specified; and where the Professors of the Faculty of Law in any University do not furnish the requisite number of Examiners duly qualified, the number shall be made up by the appointment of additional Examiners by the University Court; provided always that no person shall be appointed an additional Examiner in any University unless he be a professor in the Faculty of Law in a *Scottish* University, or shall have obtained the Degree of Bachelor of Laws, in accordance with the provisions of this ordinance.

VII. Each candidate for the degree of Bachelor of Laws shall pay a Fee of Five Guineas in respect of his examination for the Degree.

The following Regulations for the Degree of Bachelor of Law (B.L.) were sanctioned by Her Majesty, by order in Council, dated 6th August, 1874 :—

VIII. Besides the Degree in Law specified in the said Ordinance there shall in future be in the University of Glasgow a second Degree in Law granted after examination, namely, the Degree of Bachelor of Law (B.L.).

IX. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Law in the University of Glasgow unless he be a Graduate in Arts, qualified as prescribed in Section I. (*supra*), or unless he shall have passed a satisfactory examination in Latin, and in any three of the following subjects (Logic or Mathematics being always one of the three), viz. : (a) Greek, with the alternative of French or German, (b) Logic, (c) Moral Philosophy, (d) Mathematics, (e) Natural Philosophy, and (f) English Literature ; and further, shall have studied, during at least two academical years, two or more of the above branches, in one or more of the Universities mentioned in section I. The examinations shall be conducted by Examiners in Arts, together with some of the Law Examiners.

X. The course of study in Law necessary for the Degree of Bachelor of Law in the University of Glasgow shall extend over at least two academical years, and shall include attendance on a distinct course, as specified in section II., in each of the three departments of Civil Law, Law of Scotland, and Conveyancing, and in any one of the other three departments of Law mentioned in that section ; provided always that in lieu of Civil Law, or one of the last-mentioned three departments of Law, attendance on a distinct course of Moral Philosophy shall be admitted as sufficient, or in the event of Moral Philosophy having been selected by a candidate as one of the three optional subjects of Preliminary Examination then attendance on a distinct course of Political Economy shall be admitted in lieu of Civil Law or one of the said other three departments of Law. No one shall be admitted to examination as a Candidate for the said Degree unless two academical years of his course of study in Law shall have been in the University of Glasgow. The candidates shall be examined in each of the departments in which they shall have given attendance as herein required.

XI. The Examiners for the Degree of B.L. in the University of Glasgow shall be the Professors of the Faculty of Law, together with two additional Examiners appointed by the University Court, from among Graduates in Law of any of the Universities of Scotland, provided always that for six years after the approval of this alteration on the Ordinance by Her Majesty in Council, any one

shall be eligible as Examiner who is a Member of the General Council of any of the Universities of Scotland. Each of such additional Examiners shall hold office for the term of three years.

XII. The fee to be paid by each candidate for the Degree of Bachelor of Law in the University of Glasgow shall be Three Guineas.

XIII. Any candidate who, before the approval of the present alteration by Her Majesty in Council, may, with a view to Graduation in the University, have passed an examination in any of the subjects hereby required for the Degree of B.L., shall be entitled to reckon such examination as an examination in the same subject or subjects for the purposes of the said Degree.

SUBJECTS OF EXAMINATION.

Preliminary Examination for the Degree of B.L.

ARTS SUBJECTS.—The Examination in the Arts Subjects under section IX. will be the same as that for the Degree of M.A.

FRENCH.—*Montesquieu's* Esprit des Lois, Books i. to v. ; *Voltaire's* Charles XII. ; *Moliere's* Le Bourgeois Gentilhomme ; *Victor Hugo*, First Division of Selections (Poésie) contained in L'Œuvre Complète de Victor Hugo (Extraits), Paris, Hetzel-Quantin, 1885. Some knowledge of the matter of the books prescribed as well as of their text is required. A passage from a work not prescribed may also be set. Moderate proficiency in French Prose Composition is required. Questions on French Grammar, Philology, and History will also be set. For these subjects reference may be made to *Saintsbury's* Primer of French Literature, *Brachet's* Historical French Grammar, or *Clapin's* Primer of French Philology, and *Charlotte Yonge's* Primer of French History.

GERMAN.—*Von Ihering*, Der Kampf um's Recht ; *Schiller*, Die Belagerung von Antwerpen ; *Lessing*, Minna von Barnhelm ; *Gæthe*, Hermann und Dorothea. Translation, Composition, and Grammatical and Historical Knowledge will be required, as in French. Reference may be made to *Gostwick and Harrison's* German Literature, or *Selss'* Outline of the Literature of Germany ; and *Sime's* History of Germany (Macmillan's Hist. Course for Schools).

Law Examinations for Degrees of LL.B. and B.L.

The examinations for LL.B. and B.L. in Session 1890-91 will embrace the following books and subjects, viz. :—

In Civil Law.—Justinian's Institutes, with Moyle's Introduction, Commentary, etc.

In the Law of Scotland.—Bell's Principles of the Law of Scotland, and the Professor's Lectures.

In Conveyancing.—Professor A. M. Bell's Lectures on Conveyancing. The constitution, transmission, and extinction of Heritable Rights according to the Law of Scotland.

In Public Law.—(1) History and Philosophy of Law ; (2) Public International Law ; and (3) Private International Law. Authorities recommended—Maine's Ancient Law ; Ahrens' Cours de Droit Naturel, or Lorimer's Institutes of Law and Law of Nations, or Trendelenburg's Naturrecht ; Hall's or Woolsey's International Law, or Twiss' Law of Nations, or Heffter's Droit International de l'Europe, together with the prize cases reported in Tudor's Leading Cases in Mercantile and Maritime Law, or Bluntschli's Völkerrecht, together with the above cases ; the Eighth Volume of Savigny's System translated by Guthrie.

In Constitutional Law and History.—(1) History of the Constitution during the 16th and 17th centuries ; (2) Existing Constitutional Law. Authorities recommended—Hallam's Constitutional History of England, or Taswell-Langmead's English Constitutional History ; Central Government, by Traill ; The Electorate and the Legislature, by Spencer Walpole (English Citizen Series) ; Leading Cases in Constitutional Law, by Thomas ; Dicey's Law of the Constitution.

In Medical Jurisprudence.—Infanticide ; Concealment of Pregnancy ; Rape ; Wounds ; Identity ; Presumption of Survivorship ; General Evidence in Cases of Poisoning ; Poisoning by Arsenic ; Examination of Blood Stains ; Legitimacy ; Insanity. (Text-Book, Principles of Forensic Medicine, by Guy and Ferrier.)

In Moral Philosophy.—The subjects of examination for the Degree of M.A. Those who have not attended the Class of Moral Philosophy will be examined in Sidgwick's Methods of Ethics, and will also be expected to show a general knowledge of the history of Ethical Philosophy in modern times.

In Political Economy.—The General Principles of Political Economy, and the 2nd Book of Mill's Political Economy.

No candidate for the Degree of B.L. is admitted to an Examination in Law Subjects until he has passed in all the subjects of the Preliminary Examination.

By a regulation of the Faculty of Law not fewer than two subjects in Law must be taken up at one time by each candidate for the degree of LL.B. or B.L.

For dates of Examinations and times for giving in names, see next page.

6.—GRADUATION IN DIVINITY.

Degree of Bachelor of Divinity.

This Degree, having been revived in the University by authority of the University Court and Senatus Academicus, is conferred on such qualified candidates as have satisfied the Members of the Divinity Faculty of their proficiency in the following departments, viz. :—

I. Hebrew, New Testament Exegesis, and Apologetics.

II. Divinity, Church History, and Biblical Criticism.

The examinations in the First Department are held in November (13th and 14th November, 1890); those in the Second Department, in April (9th and 10th April, 1891).*

The scheme of examination for Session 1890-91 is as follows :—

I. FIRST DEPARTMENT—

- (a) *Hebrew*.—(1) Genesis i.–xxv., Text and Exegesis; (2) Isaiah i.–xiv., and Psalms i.–xviii., Text, Exegesis, and Introduction; (3) Portions of unpointed Hebrew to be punctuated; (4) Translations from English into Hebrew.

Books that may be used :—

Spurrell's Notes on the Hebrew Text of the Book of Genesis (Clarendon Press, 1887) is particularly recommended. Commentaries on Genesis are therein mentioned. The Commentaries of Cheyne, Delitzsch, Perowne; Bleek, Introduction to the Old Testament. Candidates will be expected to know Müller's Outlines of Hebrew Syntax, but they will not be examined on Pentateuch Introduction.

- (b) *New Testament Exegesis*.—(1) Introduction to the Acts of the Apostles. (2) Exegesis of Matthew xvi. 21–xxviii. 20, with critical comparison of the parallel passages in Mark and Luke. (3) Exegesis of the Epistles to the Thessalonians and of the Epistle to the Galatians.

Books which may be consulted :

(1) Schneckenburger, Ueber den Zweck der Apostelgeschichte; Lekebusch, Die Composition und Entstehung der Apostelgeschichte. (2) The relative Commentaries of Meyer, de Wette, or Alford; Bleek, Synoptische Erklärung der drei ersten Evangelien. (3) The Commentaries of Lünemann, Ellicott, or Lightfoot.

- (c) *Apologetics*.—Antitheistic Theories; Inspiration.

Books which may be consulted :

The relative sections of general treatises on Apologetics or Dogmatics [see II., below]; Flint, Antitheistic Theories; Christlieb, Modern Doubt; Voigt, Fundamental-Dogmatik; Lee on Inspiration; Row on Inspiration; Ladd, Doctrine of Sacred Scripture.

* Candidates who, under the old regulations, have already passed in Hebrew and Biblical Criticism may present themselves for examination in Divinity and Church History, and *vice versa*.

II. SECOND DEPARTMENT—

- (a) *Divinity*.—Doctrine of Christ's Person and Work ; Biblical Theology—Discourses in Book of Acts, and First Epistle of Peter.

The following books may be consulted :

The Treatises on Dogmatics by Martensen, Oosterzee, Kahnis, Lipsius, Dorner, Biedermann, Shedd ; Hodge, Systematic Theology ; Strong, Systematic Theology ; Dorner, Doctrine of Christ's Person and Work ; Thomasius, Christi Person und Werk ; Bruce, Humiliation of Christ ; Schmid, Weiss, Oosterzee, on Biblical Theology of the New Testament ; Reuss, History of Christian Theology in the Apostolic Age ; Weiss, Petrinischer Lehrbegriff.

- (b) *Church History*.—Reformation of the Sixteenth Century (Switzerland and Scotland).

The following are among the books which may be consulted :

Hardwick, History of the Christian Church during the Reformation ; Hagenbach, History of the Reformation ; Neander, History of Christian Dogmas ; Principal Lee, Lectures on the History of the Church of Scotland ; Knox's History.

- (c) *Biblical Criticism*.—(1) Textual Criticism. (2) Hermeneutics.

Books which may be consulted :

(1) Davidson, Biblical Criticism ; Tregelles, Treatise in Horne's Introduction, vol. IV. ; Scrivener, Plain Introduction to the Criticism of the New Testament (third edition) ; Westcott and Hort, Prolegomena to the Greek Testament. (2) Davidson, Sacred Hermeneutics (1843), or Treatise on Interpretation in Horne's Introduction, vol. II. ; Ernesti, Institutio Interpretis ; Immer, Hermeneutik des Neuen Testaments.

The scheme of examination for Session 1891-92 will be as follows:—

I. FIRST DEPARTMENT—

- (a) *Hebrew*.—(1) Genesis, xxvi.-l., Text and Exegesis ; (2) Isaiah, xv.-xxxv., and Psalms xix.-xli., Text, Exegesis, and introduction ; (3) Portions of unpointed Hebrew to be punctuated ; (4) Translations from English into Hebrew.

- (b) *New Testament Exegesis*.—(1) Introduction to the Gospel according to Luke ; (2) Exegesis of Mark i. 1-x. 45, with critical comparison of the parallel passages in Matthew and Luke ; (3) Exegesis of the Epistle to the Galatians and of the Epistle to the Philippians.

- (c) *Apologetics*.—Theism : Miracles.

II. SECOND DEPARTMENT.

- (a) *Divinity*.—Doctrine of the Image of God in Man ; Doctrine of Sin ; Biblical Theology—Pauline Doctrine of Sin, of Law, and of Justification.

- (b) *Church History*.—Period of the General Councils from A.D. 325 to A.D. 879.

- (c) *Biblical Criticism*.—(1) Textual Criticism ; (2) Hermeneutics.

All Graduates in Arts of any of the Universities of Scotland, or of England, or of Ireland, or of a Colonial University whose Degrees shall for this purpose have been specially recognized by the University Court, who have studied at this University during at least two sessions, and "who have gone through a due course of Theological training, whether in this University or in any other Theological School in Scotland or England," may become candidates for the Degree.

Students who have completed the second year of their Divinity studies, subsequent to the termination of their Course in Arts, may present themselves for examination in the First Department.

Forms of application for examination may be obtained from the Assistant Clerk (Matriculation Office). These forms, when filled up, must be forwarded by the Candidates to the Professor of Divinity, along with certificates of attendance on the required classes, and, having been certified by him, must then be transmitted to the Assistant Clerk (Matriculation Office), on or before 4th November or 1st April respectively. A fee of £1 11s. 6d. is payable on enrolment for each department.

Regulations for the Honorary Degree of Doctor of Divinity.

This Degree is now conferred in accordance with the following Regulations, which were adopted by the Senate on 28th February and 11th April, 1889 :—

I. At the commencement of every session a committee shall be appointed, to be called the Committee on the Degree of D.D., consisting of the Principal, three Professors from the Faculty of Theology (of whom the Professor of Divinity shall be one), and one Professor from each of the other Faculties.

II. It shall be the duty of the Committee to select persons to be recommended to the Senate for the Degree; but the Committee shall not entertain private or personal applications.

III. The Committee shall present a report embodying its recommendations to the Senate at the first meeting in March in each year.

IV. In the case of every person recommended for the Degree the report shall contain a statement of the grounds on which the recommendation is founded, showing :—

1. Whether he is an alumnus of this University, and whether he already holds the Degree of B.D., or any other University Degree.
2. Whether his character and professional standing are such as to warrant the conferring of the proposed distinction.
3. Whether, (a) being a Bachelor of Divinity of eight years' standing, he has passed a higher examination in any three of the six subjects embraced in the examination for the Degree of B.D.; or, (b) being a Bachelor of Divinity of fifteen years' standing, he has published a contribution of merit to Theological Literature.

V. No resolution to confer the Degree of D.D. shall be moved in the Senate until a fortnight after the report of the Committee has been presented.

The University dues for the Degree of D.D. shall be, as heretofore, Twenty Pounds ; under deduction of the dues previously paid on examination for the Degrees of M.A. and B.D.

7.—HONORARY DEGREE OF DOCTOR OF LAWS.

The following resolutions regulating the procedure of the Senate in conferring the honorary Degree of LL.D. were adopted by the Senate on 7th March and 11th April, 1889 :—

1. At the commencement of every Session a Committee shall be appointed, to be called the Committee on the Degree of LL.D., consisting of the Principal, three Professors from the Faculty of Arts, and two Professors from each of the other Faculties.

2. It shall be the duty of this Committee to select persons to be recommended by the Senate for the Degree ; but the Committee shall not entertain private or personal applications.

3. The Committee shall present to the Senate a report embodying its recommendations at the first meeting in March in each year.

4. In the case of every person recommended for the Degree, the report shall contain a statement of the grounds on which the recommendation is founded, showing :—

(a) Whether he is an alumnus of this or any other University, and whether he already holds any Academical Degree.

(b) Whether he is the author of any work of acknowledged merit, or has otherwise contributed to the progress of learning and science.

(c) And, in general, whether his character, profession, and position in society are such as to warrant the conferring of the proposed distinction.

5. No resolution to confer the Degree of LL.D. shall be moved in the Senate until a fortnight after the report of the Committee has been presented.

Academic Dress.

GRADUATES OF THE UNIVERSITY.

On ceremonial occasions the Graduates are expected to appear in the Gown and Hood proper to their degrees.

The ordinary Gowns to be worn by Graduates of the University of Glasgow are of black silk or stuff, of similar shape to those appropriated to the corresponding degrees in the other British Universities.*

The Hoods for the different Degrees are as follows :—

B.A., Black Silk, bordered inside with Red Purple Silk (colour of Bell Heather—*Erica Cinerea*).

* The Robemakers to the University have standard patterns of the gowns, which, it may be stated for the information of those at a distance, are of the same shape with the ordinary (or undress) gowns of the corresponding degrees at Cambridge.

M.A., Black Silk, lined with Red Purple Silk.

B.Sc., Black Silk, lined with Gold Coloured Silk (colour of Whin Blossom---*Ulex Europæa*).

D.Sc., Black Velvet, lined with Gold Coloured Silk.

B.L., Black Silk, bordered inside with Venetian Red Silk (colour of Clove Carnations).

L.L.B., Black Silk, lined with Venetian Red Silk.

L.L.D., Black Velvet, lined with Venetian Red Silk.

M.B. and C.M., Black Cloth, lined with Scarlet Silk.

M.D., Black Silk, lined with Scarlet Silk.

B.D., Black Silk, bordered with Black Velvet, lined with Red Purple Silk.

D.D., Black Velvet, lined with Black Silk, or (if the Graduate be Master of Arts) with Red Purple Silk.

UNDER-GRADUATES.

By a Statute of the Commissioners appointed by the Act, 1690, chapter XVII., of the Parliament of Scotland, "for the Visitation of Universities and Schools," it was enacted that "all the students in the several Universities and Colleges within this kingdom be obliged to wear gowns during the time of the sitting of the Colleges," and that "the Regents or Masters be obliged to wear black gowns, and the students red gowns; and, in regard that wearing of gowns has never been the custom in the College of Edinburgh, the Commissioners do therefore recommend to the Masters of that College to endeavour to bring the custom of wearing gowns there into practice." It appears from the University records that the wearing of red gowns had been previously the practice in Glasgow, and it continued to be the practice in all the Arts classes which existed at the date of this statute uninterruptedly till recently.

The General Council of this University having requested the University Court to recommend to the Senate the propriety of requiring the students to conform to the ancient practice of this University as to Academic dress; and the University Court having remitted the subject to the determination of the Senate, with an expression of regret that the Academical Dress formerly worn by the Arts students has of late years been laid aside, the Senate has given notice that the proper Academic Dress for students in Arts is the red gown.

While this notice does not apply to students not in the Faculty of Arts, all students in the University are entitled to wear the red gown.

CEREMONY OF GRADUATION.

The following are the regulations adopted by the Senate:—

All Degrees honorary or gained by examination, shall be publicly conferred, except in special cases to be decided by the Senate.

Candidates for Graduation are required to appear in black gowns with the hoods appropriate to their degrees; those who are already graduates, in the costume proper to their previous degree.

VII.—BURSARIES, SCHOLARSHIPS, &c., PRIZES.

N.B.—No alumnus of the University is allowed to hold at one time more than one Bursary, Scholarship, or Fellowship, except in cases provided for by the Regulations.

In the case of Bursaries in the gift of the Senate, in appointing to which "a preference" is to be given to certain names, &c., by a "preference" the Senate understand, in every instance, a preference *ceteris paribus*.

A. BURSARIES (ARRANGED ACCORDING TO FACULTIES).

BURSARIES IN THE FACULTY OF THEOLOGY.

Bursars in the Faculty of Theology are required to attend each session the Divinity Class and any two of the three classes of Hebrew, Church History, and Biblical Criticism.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Adam, John, - - - - -	3	4	£15
Black, - - - - -	2	3	£42
Boyd, - - - - -	1	3	£11
Boyd and Sanders, - - - - -	1	3	£13 16/8
Brown or Ettles, - - - - -	2	3	£21
Dundonald, - - - - -	6	2	£41 2/6
Gilhagie, - - - - -	1	4	£6 6/
Hastie, - - - - -	2	3	£25
Logan, - - - - -	1	3	£16
Lorimer, - - - - -	4	3	£25 & £20
Lumsden, - - - - -	1	4	£15
Macfarlane, - - - - -	1	3	£36
Marshall, - - - - -	1	4	£17
Muir, - - - - -	1	3	£36
Muir Divinity, - - - - -	2	2	£25
Notman, - - - - -	1	3	£17
Ross, John, jun., - - - - -	1	3	£36
Struthers, - - - - -	1	3	£13 6/8
Wilson, - - - - -	1	3	£13 6/8

BURSARIES IN THE FACULTY OF LAW.

Merchants' House, - - - - -	1	3	£25
Walkinshaw-Young, - - - - -	1	2	£18

BURSARIES IN THE FACULTY OF MEDICINE.

Brisbane, - - - - -	1	4	£42
Davidson, - - - - -	1	3	£40
Malcolm Kerr (Chem.), - - - - -	1	3	£18
Logan, - - - - -	1	4	£16
Lorimer, - - - - -	4	3	£25 & £20
Macarthur, - - - - -	1	2	£20
Macfarlane, - - - - -	1	3	£40
Mackintosh, - - - - -	1	1	£30
Marshall, - - - - -	1	4	£17
Merchants' House, - - - - -	2	4	£25
Monteith, John, - - - - -	2	2	£18
Rainy, - - - - -	2	2	£20
Walton, - - - - -	1	4	£36
Weir, Andrew, - - - - -	1	1	£18

BURSARIES IN THE FACULTY OF ARTS.

Bursars in the Faculty of Arts are required to attend each session two at least of the classes embraced in the curriculum for M.A.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Adam, James, - - - - -	3	4	£11
Adamson, - - - - -	1	3 or 4	£20
Angus and Mearns Benevolent Society,	2	4	£15
Barbour (Kilbarchan), - - - - -	1	3	£16
Biggart Memorial, - - - - -	10	4	£25
Black, - - - - -	2	4	£21
Blackquarry School, - - - - -	1	4	£13
Brand, - - - - -	3	4	£24
Brown, - - - - -	1	4	£6 13/4
Brown, Ebenezer, - - - - -	1	3	£37
Brown (Saltcoats), - - - - -	1	4	£12
Browne (Ayrshire), - - - - -	2	4	£20
Buchanan, - - - - -	2	3	£13
Clark, John (Mile-end), - - - - -	20	4	£30
Cowan, - - - - -	1	2	£35
Craig, - - - - -	1	4	£25
Craig, Archibald, - - - - -	1	2	£9
Crawfurd (or Bishop's), - - - - -	1	4	£12
Davidson, - - - - -	1	3	£40
Duncan's Bute, - - - - -	2	4	£35
Dundonald, - - - - -	8	4	£40
Elder, - - - - -	2	2	£50
Ewing, James, - - - - -	4	4	£20
Forfar, - - - - -	4	4	£30
Foundation, - - - - -	4	4	£10
Fullarton of Overton, - - - - -	5	2	£15
General Council, - - - - -	5	3 or 2	£20
Gilchrist, - - - - -	1	3	£8
Glasgow City Educational Endowm'ts,	20	4 or 2	£25
Grant, George, - - - - -	1	3 or 4	£45
Grant, George, jun., - - - - -	1	4	£45
Hannay, - - - - -	3	3	£15
Hastie, - - - - -	1	4	£25
Howison, - - - - -	1	4	£9
Hutchesons' Educational Trust, - - - - -	20	4	£20
Hyndford, - - - - -	1	4	£6 13/4
Jaffrey, John Ferguson, - - - - -	1	2	£34
Kerr, Malcolm (Nat. Phil.), - - - - -	1	3	£18
Laing, - - - - -	1	3	£20
Leadbetter, - - - - -	1	4	£9
Leyden, John, - - - - -	1	3	£13
Lochhead, James, - - - - -	1	3	£16
Lochhead and Mitchell, - - - - -	2	4	£32
Lorimer (4 Phil. 4 Math.), - - - - -	8	3	£25 & £20
Lusk, - - - - -	1	3 or 4	£33
M'Crie, - - - - -	4	4	£25
M'Culloch, - - - - -	1	4	£15 10/
MacDougall, - - - - -	5	3	£33
M'Ewen, Malcolm (Arts or Science), - - - - -	1	4	£16
MacGrouther, - - - - -	2	4	£20 & £15
M'Kechnie, - - - - -	2	4	£35
Maitland Club, - - - - -	1	—	—

BURSARIES IN THE FACULTY OF ARTS—*Continued.*

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Menzies, - - - - -	4	4	£50
Merchants' House, - - - - -	1	4	£25
Metcalfe, - - - - -	4	2	£25
Monteith, - - - - -	3	3	£14
Muir (Civil Engineering), - - - - -	2	1	£12 10/
Muir (Mathematics, Senior), - - - - -	1	1	£18
Muir (Mathematics, Junior), - - - - -	1	2	£9
Orr-Ewing Dumbartonshire, - - - - -	16	4	£25
Paterson, James, - - - - -	1	4	£23
Patrick, - - - - -	2	2	£80 and £40.
Perthshire Society, - - - - -	1	3	£25
Pollock, - - - - -	3	3	£40
Ramsay-Walker, - - - - -	2	4	£12
Ross, - - - - -	1	4	£4 3/4
Scott, - - - - -	3	4	£25
Stewart, - - - - -	3	4	£15
Stirlingshire Society, - - - - -	1	5	£25
Thomson, James (Philosophical), - - - - -	1	2	£11

BURSARIES IN THE FACULTIES OF ARTS AND THEOLOGY.

Ardkinglass, - - - - -	1	8	£9 10/
Buchanan (Bellfield), - - - - -	2	7	£50
Exchequer, - - - - -	6	6	£10 & £13 6/8
Hamilton, - - - - -	6	6	£20 & £25
Leighton, - - - - -	2	7	£9
Williams, - - - - -	7	3 or 4	£40

BURSARY IN THE FACULTIES OF ARTS OR THEOLOGY.

Lamb, - - - - -	1	—	£12
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BURSARIES IN THE FACULTIES OF ARTS, LAW, OR MEDICINE.

Macdonald, - - - - -	2	4	£14
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BURSARIES IN THE FACULTIES OF THEOLOGY, LAW, OR MEDICINE.

Arinagh, - - - - -	3	3	£25
Old Library, - - - - -	1	4	£11 2/2 $\frac{1}{4}$

BURSARIES IN ANY FACULTY.

Ayrshire Society, - - - - -	4	3	£15
Celtic Society (Campbell), - - - - -	1	1 or more	£5
Denny, - - - - -	4	4	£30
Dumfriesshire Society, - - - - -	2	4	£15
Ferguson, James, - - - - -	2	2	£80
Forrest, - - - - -	5	5 or less	£22
Gibson, John, - - - - -	2	4	£20
Kintyre (Ker), - - - - -	1	3	£20
M'Kechnie, - - - - -	2	4	£35
Shearer, - - - - -	3	3	£30
Smith, - - - - -	2	1 or more	£9
Taylor, - - - - -	2	4 or 5	£12

B.—BURSARIES (ALPHABETICALLY ARRANGED).

JAMES ADAM BURSARIES (*Arts*).—Three in number, founded by the Rev. James Adam, minister of Cumbrae, who died in 1830. They are appropriated to students in the Gown Classes, and tenable for four years. In appointing to one of the Bursaries, preference is given to the kindred of the founder, and in appointing to another to students of the name of Adam. The appointment is vested in the Earl of Glasgow, the Professor of Divinity, and the Minister of Cumbrae. Value, about £11 per annum each.

Bursars—Edwin A. Shanks, 1887; James Macnab, 1888; Norman Macleod Wright, 1888.

JOHN ADAM BURSARIES (*Theology*).—Three in number, founded by Mr. John Adam, of the Inner Temple, who died in 1836. They are open to competition to students in Theology of the first year; and, after examination, are adjudged to the three students who shall be declared to be the most deserving, and to have made the highest attainments in Latin, Greek, Logic, Moral and Natural Philosophy, and Mathematics. In appointing to one of the Bursaries, there is a preference, *cæteris paribus*, to the kindred of the founder, and to students of the name of Adam or Dollar. The trustees and patrons are the Principal, the Professor of Theology, and the five Professors of the Gown Classes. These Bursaries are tenable for four years. Value, £15 to each Bursar.

Bursars—*George W. Lowe, 1887; *Andrew Lang, 1887; Andrew Campbell, 1889 (1888).

ADAMSON BURSARY (*Arts*).—Founded by the Rev. David Adamson, minister of Fintry, in 1674, is appropriated to a student in Philosophy, son of a freeman in one of the seven Incorporate Trades of Stirling. It is tenable for four years by a student entering the Greek Class, for three years by a student entering the Logic Class; and the appointment is vested in the Convener Court of Stirling. Value, the free proceeds of the capital, which now amounts to about £500. (Vacant.)

ANGUS AND MEARNS BENEVOLENT SOCIETY'S BURSARIES (*Arts*).—Two in number, founded in 1860 by the Glasgow Angus and Mearns Benevolent Society. Value, £15 per annum each. They are tenable for four years in the Arts Classes, and are open only to natives, or sons of natives, of the counties of Forfar and Kincardine, who are desirous of obtaining a University education, but whose circumstances are such as to render them unable to accomplish it without the aid of a Bursary.

Applications to be made, not later than 1st September in each year, to Mr. Stuart Spence, 52 Virginia Street, Glasgow.

Bursars—Edwin Lyall, 1887; David R. Boyd, 1888.

* Vacant—Bursars' course finished.

ARDKINGGLASS BURSARY (*Arts and Theology*).—Founded in 1733, by Sir James and Lady Campbell, out of a fund which Colonel John Blackader had by his Will set aside for pious uses. Tenable for eight years—five in Languages and Philosophy, and three in Divinity. Patron, Mr. Geo. F. W. Callander, of Ardkinglass and Craigforth. Bursar to be found duly qualified by Principal and Masters; and to take the degree of M.A. before passing to Divinity. Value, £9 10s.

Bursar—John M'Arthur, 1889.

ARMAGH BURSARIES (*Theology, Law, or Medicine*).—Three in number, founded in 1733 by Hugh Boulter, Archbishop of Armagh, who endowed the College with the annual rent of certain lands in the neighbourhood of Glasgow. By ordinance of the Universities Commissioners, of date 17th May, 1862, these three Bursaries were raised from £15 to £25 per annum each (the funds having accumulated through vacancies), and the restrictions as to birthplace were removed. On each vacancy, the most distinguished Graduate in Arts of the year, who offers himself as a candidate, is appointed by the Senate.

The Bursaries are tenable for three years, during which the holders must give regular attendance on the classes of this University, as students of Theology, Law, or Medicine. One Bursar is appointed at the commencement of each session, and no appointment is made of more than one Bursar in the same year.

Names of candidates to be sent in to the Clerk of Senate on 1st December in each year.

Bursars—*Robert Gardner, M.A., 1887; John Lindsay, M.A., 1889.

GLASGOW AYRSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Four in number, founded in 1868 and 1879 by the Glasgow Ayrshire Society, and consisting of the free annual proceeds of a sum of £1,501 11s. subscribed by members of the Society, to be devoted to the establishment of Bursaries in the University of Glasgow, and invested for that purpose. The Bursaries, which are at present £15 per annum each, are tenable for not more than three years, and are open to applicants between the ages of 14 and 24, who are descendants of members of the Society, or natives of Ayrshire, or sons of natives resident in Glasgow, who are in circumstances rendering the aid of a Bursary necessary or desirable. Patrons—the Directors and Office-bearers of the Society. Secretary, Mr. James Graham Girvan, 186 West George Street, Glasgow.

Bursars—*James Stevenson, 1887; *Edward Millar, 1887.

BARBOUR KILBARCHAN BURSARY (*Arts*).—Founded in 1887 by the Executors of Miss Mary Barbour of Plymouth Grove, Manchester,

* Vacant through lapse of time.

who bequeathed £500 free of legacy duty for the purpose of endowing a Scholarship for the Board School of Kilbarchan, Renfrewshire. The Bursary is open to students of the first year, and is tenable for three years. Candidates must not exceed the age of eighteen years, must produce a certificate from the Kilbarchan School Board that they have attended three years at the Kilbarchan Village or Town Board School, are of irreproachable character, and have given satisfactory evidence of good natural ability, diligence and proficiency in their studies, and must be examined at the ordinary Bursary examination. (Vacant.)

BIGGART MEMORIAL BURSARIES (*Arts*).—Ten in number. Value, £25 per annum each. Founded in 1876 by Mr. Thomas Biggart, of Baidlandhill, Dalry, Ayrshire, in memory of his son, Thomas Biggart, an alumnus of Glasgow University, who died in 1874. The Bursaries are open to competition at the annual Bursary and Preliminary Examination to students who are entering on the Arts Course at the University of Glasgow, with a view to the ministry of the United Presbyterian Church, and are designed to enable such students more easily to pursue that curriculum and obtain, as far as practicable, the Degree of Master of Arts.

The Bursaries are tenable for four years.

The Bursary Fund consists of the sum of £6,000, invested in real estate in Scotland, and the surplus revenue may be applied to prolong the tenure of any of the Bursars for a fifth year, or to the granting of additional Bursaries on the same conditions as are applicable to the others.

The Bursary is payable by equal moieties on the second day of February and at the close of the Winter Session ; and the Bursar, on applying to the Principal for a precept for the second moiety, is required in each year to produce, besides the usual certificate from the Professors, a certificate signed by the Chairman and Clerk of the Theological Committee of the U.P. Synod, to the effect of his being recognized by that Church as an accepted student, pursuing his studies with a view to the ministry therein.

Bursars—*Thomas R. Barnett, 1886 ; *Andrew R. Low, 1886 ; *John Weir, 1886 ; Alexander Carruthers, 1887 ; William Clow, 1887 ; Robert M. Buchanan, 1888 ; Joseph M. B. M'Intyre, 1888 ; Thomas Wardrop, 1888 ; William C. Miller, 1889 ; Andrew Patrick, 1889 ; Andrew M'Lachlan, 1889.

BLACK BURSARIES (*Arts*).—Founded by Mrs. Janet Black, widow of the Rev. William Black, D.D., minister of the Barony Parish, Glasgow. Mrs. Black died in 1876, and by her Settlement, made provision, *inter alia*, for the institution of two Bursaries in Arts, each of the annual value of £20 or thereby. The Bursaries are open to competition to students entering on their first session in the

* Vacant through lapse of time.

University ; and the Bursars are required to attend the qualifying courses for a Degree in Arts.

Bursars—* John Gillies, 1886 ; David Baird, 1887.

BLACK BURSARIES (*Theology*).—Founded by Mrs. Janet Black—who died in 1876—in memory of her husband, William Black, D.D., Minister of the Barony Parish of Glasgow. The Bursaries are entrance Bursaries, two in number, each of the annual value of £40 or thereby, tenable for three years. The competition is open to candidates holding a degree in Arts in any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. Candidates must be members of the Established Church of Scotland.

Bursars—* Robert W. Rutherford, M.A., 1887 ; James W. Macdonald, M.A., 1889.

BLACKQUARRY SCHOOL BURSARY (*Arts*).—Founded in 1876 by the Trustees of the Blackquarry School, Port Dundas, Glasgow. The Police Board of Glasgow having acquired the school compulsorily under "The Glasgow Police Acts," the Trustees resolved to apply the proceeds, after payment of all claims upon the institution, in founding a Bursary in the University of Glasgow. The Bursary is open to competition to Students in the Faculty of Arts on their first entering the University, under the same regulations as those of the competition Bursaries in the University, and is tenable for four years, subject to the condition that the Bursar shall attend the qualifying course for the Degree of M.A. Value, the annual income of a sum of £420 (about £13).

Bursar—George M'Pherson, 1889.

BOYD BURSARIES (*Theology*).—In 1635, Mr. Zachary Boyd founded three Bursaries for students in Divinity, tenable for two or four years. Value, £5 10s. per annum each. The patrons of two were the members of the City Council ; and the appointment of the third was vested in the Merchants' House of Glasgow. Preference to burgesses' sons, particularly of the name of Boyd.

By ordinance of the Universities Commissioners, of date 17th May, 1862, the two Bursaries in the gift of the Town Council were conjoined into one, tenable for three years ; the Bursar to be M.A. The Bursary in the gift of the Merchants' House is now combined with the Sanders Bursary—(See below).

Bursar—(Town Council)—Archibald B. Scott, M.A., 1889.

BOYD AND SANDERS BURSARY (*Theology*).—The Boyd Bursary (see above), value, £5 10s., in the gift of the Merchants' House of Glasgow, and the Sanders Bursary, value £8 6s. 8d., founded in 1728 by Mr. Robert Sanders of Auldhouse, also in the gift of the Merchants' House, were, by an order obtained under the authority

* Vacant through lapse of time.

of the Endowed Institutions Commission in 1880, conjoined into one Bursary of £13 16s. 8d. per annum, tenable for not more than three years by a student attending the ordinary curriculum in the Faculty of Theology at the University of Glasgow. There is a preference, *cæteris paribus*, to the names Boyd, Sanders, Corbet, Colquhoun, and Wardrop. When a vacancy occurs applications are to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st October.

Bursar—Robert L. Boyd, 1889.

BRAND BURSARIES (*Arts*).—Mr. Robert Brand, son of the late Mr. Robert Brand, coalmaster, Wishaw, by his Trust Disposition and Settlement, dated 28th June, 1873, directed his Trustees "to pay to the Senatus of the University of Glasgow the sum of £2,000, the income of said sum to be applied in payment of three Bursaries in Arts for the behoof of students in the University who shall be studying with a view to the ministry of the United Presbyterian Church." Mr. Brand died on 3rd July, 1873, but, in consequence of litigation, it was not till January, 1875, that the bequest, amounting, with interest, to the sum of £2,121 7s. 5d., was paid by the Trustees to the Senate. The Bursaries, which are tenable for four years, are of the annual value of about £24 each, and are awarded by public competition to students entering their first or second session in the Faculty of Arts; the Bursars to graduate as M.A. at the end of their course.

Bursars—*David Connor, 1886; Archibald M'Lean, 1887; James Orr, 1889 (1888).

BRISBANE BURSARY (*Medicine*).—Founded by Miss Christian Brisbane in 1777, in fulfilment of the intentions of her brother, Dr. John Brisbane, of Balbegno. Their father, Dr. Thomas Brisbane, was the first Professor of Anatomy in this University.

It is tenable by a student of Medicine for four years, and the salary is about £42 per annum. The family of Brisbane and the College present alternately. The applicant must be under twenty-two years of age, and must have the Degree of M.A.

Preference is given to the kin of the founder.

Bursar—John Paterson, M.A., 1888.

BROWN BURSARY (*Arts*).—Founded in 1697 by Colonel Brown, of Maryland. Tenable for four years. Value, £5 per annum (increased to £6 13s. 4d. by addition from Students' Bursary Fund). The Patrons are the Principal and Professors of the University, who now award it by competition.

Bursar—John M. Manford, 1888 (1887).

BROWN OR ETTLES BURSARIES (*Theology*).—Two in number, founded in 1867 by Miss Ettles, of Inverness, in memory of her

* Vacant through lapse of time.

brother-in-law, Dr. E. Brown, an alumnus of this University. The Bursaries consist of the annual interest and proceeds of a sum of £1,000, and are open to competition to first year's students of Divinity who have passed all the examinations required for the ordinary Degree of M.A. ; with a preference, *cæteris paribus*, to such as can speak Gaelic. The Bursaries are tenable for three years.

Bursars—William M. Campbell, M.A., 1888 ; William Metcalfe, M.A., 1889.

EBENEZER BROWN BURSARY (*Arts*).—Founded in 1884 under the Trust Disposition and Settlement of Mr. Ebenezer Brown, export bottler, West Campbell Street, Glasgow. Mr. Brown, who died on 31st July, 1883, bequeathed to the Senate the sum of £1,000, free of legacy duty, for the purpose of founding and maintaining a Bursary in the Faculty of Arts, to be granted to the student who shall stand highest in a competitive examination on such subject or subjects in Arts as the Senate may prescribe. The Senate have full power to vary such subject or subjects from year to year, and to lay down such regulations regarding the Bursary as they may see fit. The Bursary is open to competition to all students entering on their first or second year of attendance, provided that no student in his second year shall be eligible who on entering upon his first year of attendance passed the Preliminary Examination in Latin and Greek, and in consequence of having so passed attended the Senior Classes of those subjects. It is tenable for three years.

Bursar—Charles W. Stewart, 1889.

BROWN (SALTCOATS) BURSARY (*Arts*).—Founded in 1872 by Mr. Matthew Brown, of Braehead, Saltcoats, sole-acting Trustee and Executor under the Trust Disposition and Settlement of his kinsman, Mr. William Brown, junior, of Parkhead, Saltcoats, who died 13th February, 1871, and in fulfilment of the intention of his said kinsman. Value, the yearly proceeds of a sum of £300, presented to Mr. William Brown at a public banquet held in his honour, and which he had set apart to be applied for the foundation of a Bursary in connection with the University of Glasgow. Tenable for four years by a student in Arts. Preference is given in the first place to one who is either a native of the town of Saltcoats, or at the time a permanent resident in Saltcoats, provided he shall be found, on such examination as the Trustees may prescribe, properly qualified by his education for entering the University ; whom failing, such a one, qualified as aforesaid, as has been by birth, residence, or relationship connected with Saltcoats ; and failing such, then a student whom they shall find on public examination to be best qualified and most deserving of such nomination.

The Bursary Fund is now administered as part of the "Campbell Brisbane Bequest."

Applications to be made to Mr. James Campbell, Saltcoats.

Bursar—William B. M'Nab, 1887.

BROWNE (AYRSHERE) BURSARIES (*Arts*).—Two in number, tenable for four years, and each of the annual value of about £20, founded in 1871 by Mr. Hugh Browne, residing at Darvel, in the county of Ayr, who for this purpose, and in memory of his brother, the late Dr. Alexander Browne, of Buenos Ayres, mortified to the University of Glasgow the sum of £1,000. The Bursaries are awarded by competition. Candidates must be natives of the county of Ayr, or must have been educated for not less than four years in a school within the said county, and must be entering on their first session at the University.

Bursars—Hugh Cowan, 1887 ; Thomas Hunter, 1889.

BUCHANAN BURSARIES (*Arts*).—Founded by the late Robert Buchanan, LL.D., Ardfillayne, Dunoon, formerly Professor of Logic and Rhetoric in the University of Glasgow, by codicils to his will, dated 26th December, 1871, and 26th March, 1872, in which, as a "token or expression of his gratitude and respect to the University of Glasgow, with which, as a student, or Professor, or member of the University Court, he had been connected for the space of fifty years," he bequeathed the sum of £1,000 for the purpose of founding a Bursary or Bursaries for students in the Faculty of Arts, on the conditions that may appear to the Senatus best for the interests of the University. The Senate resolved to apply the annual proceeds to the support of two Bursars in Arts, each to hold his Bursary for three years, subject to the usual condition of attending two of the classes of the curriculum in each session ; the Bursars to be appointed by competitive examination among students of the first year. Present value, £13 to each Bursar.

Bursars—Archibald N. M'Lellan, 1888 ; James Ferguson, 1889.

BUCHANAN (BELLFIELD) BURSARIES (*Arts and Theology*).—Founded in 1875, in accordance with the Trust Disposition and Deed of Settlement of the late Misses Margaret Jane and Elizabeth Buchanan of Bellfield, Glasgow. The Bursaries are two in number, and consist of the yearly proceeds of a sum of £4,200, vested in Reduced 3 per cent. Annuities. Open to matriculated students who may be prosecuting their studies at the University of Glasgow, with a view to their becoming licentiates and clergymen of the Established Church of Scotland. The Patrons are the Principal and such of the Professors as hold their appointments from the University Court. The Bursaries are tenable during the whole curriculum "or such portion thereof as to the said Principal and Professors may seem proper." The Bursars are appointed by competitive examina-

tion among students of the first and second years in Arts. Present value, £50 per annum to each Bursar.

Bursars—*Daniel Kirkwood, 1883 ; John M. Dickie, 1889.

CELTIC SOCIETY'S CAMPBELL BURSARY (*Any Faculty*).—Founded in 1869 by the Glasgow Celtic Society. Value, at least £5. Tenable for one or more years by a native, or a son of a native, of the Highlands of Scotland, not under 14 nor above 20 years of age, whose circumstances are such as to render aid important. A preference, *cæteris paribus*, to Gaelic-speaking students. Additional Bursaries not exceeding £5 are also granted by the Society, when its funds permit, to Gaelic-speaking students. Applications to be made to the Honorary Secretary, Mr. Charles M. Williamson, 194 West George Street, Glasgow, on or before 1st October in each year. Application forms may be obtained from Mr. Williamson.

Bursars—*William R. Paterson (Campbell Bursary), 1889 ; *John M'Kenzie (Society Bursary), 1889.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS (*Arts, etc.*)—(See under "Scholarships.")

JOHN CLARK (MILE-END) BURSARIES (*Arts*).—Founded in 1868 in accordance with the Trust Disposition and Deed of Settlement of the deceased Mr. John Clark, junior, of the firm of John Clark, junior, & Co., thread manufacturers, Mile-End, Glasgow. By a Deed of Constitution of date 1st August, 1866, the "Clark Bursary Fund" is placed under the management of twelve trustees. The Bursaries are to be at least two in number, of the annual value of £30, open for competition to all Protestant students of good moral character, sons of Protestant parents, entering on their first session in the Faculty of Arts (a preference, *cæteris paribus*, given to orphans), and are tenable for four years, subject to the condition that the Bursars proceed through the curriculum of Arts in Glasgow University. The competition is to be in writing, and the trustees are to appoint the subjects of examination. The Bursary fund consists of the residue of the Testator's estate, said residue amounting to upwards of £30,000. Four Bursaries on this foundation will be competed for in November, 1890.

Bursars—*Joshua Ferguson, 1886 ; *John Liddell, 1886 ; *John E. M'Fadyen, 1886 ; *Hugh M'Pherson, 1886 ; *Nicholas Macnicol, 1886 ; *Peter Pinkerton, 1886 ; John Bartholomew, 1887 ; Horace S. Carslaw, 1887 ; Samuel D. Cowan, 1887 ; Andrew G. Thomson, 1887 ; Robert G. Nisbet, 1888 ; James T. Rankin, 1888 ; Charles W. Thomson, 1888 ; John Paton, 1888 ; George N. M. Birkett, 1889 ; William Blue, 1889 ; Joseph F. M'Fadyen, 1889 ; Robert Yeomans, 1889.

* Vacant through lapse of time.

COWAN BURSARIES (AYR ACADEMY) (*Arts*).—These Bursaries were founded by the late David Cowan, Esq. of Auchendrane, who bequeathed to the Directors of the Ayr Academy the sum of £2,000, to be invested and held by them in trust, and the annual income thereof applied as Bursaries, to promote the education of two students, one at each of the Universities of Edinburgh and Glasgow, who shall have received their previous education, or part of it, at Ayr Academy. The Founder further directed by his Will that candidates should undergo a competitive examination, and that the tenure of the Bursaries should be for two years. The Bursaries are two in number, of the annual value of £35 sterling each, and are open to all students of either the Fifth or the Sixth Class (Classical Section) in Ayr Academy who have attended that institution for at least two sessions before the date of the competition. On a vacancy, intending candidates must send in their names and addresses to the secretary on or before the fifteenth day of October; and the Senate of the University of Glasgow undertakes the examination of candidates who offer themselves for the Bursary to be held at this University.

No student who has gained a Cowan Bursary shall hold along with it any other Bursary. Each holder of a Cowan Bursary shall, during his tenure thereof, give attendance each session in two or more of the classes in the Faculty of Arts necessary for the degree of M.A.; and previous to enrolling himself as a student in any of these classes, he shall, if required to do so, intimate to the Secretary of the Academy or to the Rector, the particular course of study which he wishes to follow while holding the Bursary, that the same may be approved of by the Directors. These Bursaries are in future to be administered by "Ayr Educational Trust." Further information will be afforded by the Secretary of the Trust, Ayr.

Bursar—(At Glasgow University)—Robert Rillie, 1889.

CRAIG BURSARY (*Arts*).—Founded by Mr. John Craig, merchant in Glasgow, in 1697, for students in Philosophy. Tenable for four years. Preference to kindred of Founder, and students of the name of Craig. Value, £8 6s. 8d. per annum, increased by the Patrons in 1880 to £25. Appointment by the Merchants' House. Applications to be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st October of the year in which a vacancy occurs.

Bursar—*Donald Campbell, 1886.

ARCHIBALD CRAIG BURSARY (*Arts*).—The Rev. Archibald Craig, some time minister of the Free Church at Dalton, thereafter residing at Eaglesham, who died on 10th March, 1873, by his Will, dated 4th March, 1873, bequeathed a sum which, with accretions, now amounts to £250, to be devoted to the foundation of a Bursary in the University of Glasgow. The Trustees of the Bursary Fund are—the Minister for the time being of the Parish of Eaglesham, the

* Vacant through lapse of time.

Minister for the time being of the United Presbyterian Church, Newton-Mearns, and certain other gentlemen. The Bursary was founded in 1884. It is open to competition, at the annual Bursary Examination, to all students entering on the first session of attendance at the University, who are natives of the parishes of Eaglesham or Mearns, or who for two consecutive years have attended school in either of said parishes ; is awarded by the Senate in accordance with the result of that examination ; and is tenable for the first two years of such student's attendance at the University. The Bursary is payable at the close of the winter session. Should the Bursary be in abeyance during any session or sessions, from failure of students falling under the above description, the accumulation may, in the discretion of the trustees, be applied to the increase of the Bursary in any subsequent session or sessions, or may be added to the capital fund.

Bursar—Matthew M. Mather, 1889.

CRAWFURD OR BISHOP'S BURSARY (*Arts*).—Founded by Captain Thomas Crawford, of Jordanhill, in 1576. Appropriated to a student in Languages. Tenable for four years. Value, a chalders of meal (£12 or thereby) per annum. The Patrons are the Principal and the Professors of the University.

By ordinance of the University Commissioners, 7th June, 1862, this Bursary is placed upon the same footing as the Forfar Bursaries (for which see p. 181).

Bursar—John Thomson, 1889 (1888).

DAVIDSON BURSARIES (*One in Arts and one in Medicine*).—Two in number, founded in 1881, in terms of the Trust Disposition and Settlement of Mrs. Eliza Davidson who bequeathed £2,000 for that purpose, the one bursary being in memory of her husband, John Davidson, surgeon, Newmilns, and the other in memory of her son, Francis John Ferguson Davidson. A preference is given, *cæteris paribus*, to the Founder's relatives, and to young men natives of the parishes of Muirkirk, Dalserf, Lesmahagow, and Loudon. One of the Bursaries is open to competition to students of the first or second year in the Faculty of Arts, and is tenable for three years, but the second moiety of the third year's Bursary is not payable until the Bursar shall have obtained two out of the three Departmental Certificates for the Degree in Arts. The other Bursary, also tenable for three years, is awarded to the medical student who stands first in the First Professional Examination, provided that his attendance at the classes has not exceeded the requirements of the Ordinance. The Bursary in Medicine will be awarded at the close of the Medical Professional Examinations in October, 1892.

Bursar in Arts—William C. Anderson, 1888.

Bursar in Medicine—James Carslaw, M.A., 1889.

DENNY BURSARIES (*Any Faculty*).—Four in number, founded in 1875, by Mr. Peter Denny, engineer and shipbuilder, Dumbarton. Value, not less than £30 per annum each, and tenable for four years. Open for competition to all students entering the University who are not under fourteen years of age, and who have been pupils in regular attendance at the Dumbarton Burgh Academy for at least two years, one of which must be immediately preceding the date of such entry. One of the Bursaries will be competed for at the beginning of next session. The examination will be in the same subjects and at the same time as the examination for the other competition Bursaries. The Trustees are Mr. Peter Denny, Mr. John M'Ausland, the Principal and Professors, and the Assessor of the General Council in the University Court.

Bursars—*John D. Cormack, 1886; Peter L. L. Craig, 1887; James A. Robertson, 1888; Allan M. Robertson, 1889.

GLASGOW DUMFRIESSHIRE SOCIETY'S BURSARIES (*Any Faculty*).—Two in number, the one founded in 1874 and the other in 1876. They are in value, £15 per annum each, are tenable for four years, and consist of the annual proceeds of a sum subscribed by members of the Glasgow Dumfriesshire Society and invested for the establishment of Bursaries in Glasgow University. The Bursaries are open to first and second year's students, between the ages of 14 and 21, who are either descendants of members of the Glasgow Dumfriesshire Society, or natives of Dumfriesshire, or sons of natives resident in Glasgow, whose circumstances render the aid of a Bursary necessary or desirable. Application to be made to the Honorary Secretary, Mr. Thomas H. Carmichael, 176 Ingram Street, Glasgow, not later than 1st September of the year in which a vacancy occurs.

Bursars—*Archibald G. Sanders, 1886; Thomas M'Nay, 1888.

DUNCAN'S BUTE BURSARIES (*Arts*).—Founded in 1875 for the benefit of natives of the island of Bute, by Mr. James Duncan, of Valparaiso, and afterwards of Rothesay, who by his Will of date 19th October, 1874, bequeathed £2,000 for this purpose. The Trustees and Patrons are the Principal, the Professor of Mathematics, the Professor of Natural Philosophy, and the Provost of Rothesay, all for the time being. Candidates must be natives of the island of Bute, and must be entering on their first or second session in the Faculty of Arts at the University. The Bursaries are two in number, tenable for four years; but the Patrons may in each case continue the Bursary for a fifth year to assist a student who may have been assiduous in his Academical studies, in private study, or in Continental travel, or other pursuits conducive to relaxation, combined with enlargement of his experience of men and things. The examination is in the same subjects and at the same time as the examination for the other competition Bursaries. There is a pre-

* Vacant through lapse of time.

ference, *cæteris paribus*, to the name of Duncan, in such degree as the Patrons shall determine; in other cases of equality the Bursary may be divided. Present value, £35 to each Bursar.

Bursars—Samuel M'Fie, 1888 ; James Lyle, 1889.

DUNDONALD BURSARIES (*Eight in Arts and Six in Theology*).—In 1672, William, Earl of Dundonald, founded seven Bursaries—four in Philosophy and three in Divinity. The Philosophy Bursaries are tenable for four years ; the Divinity Bursaries for two years.

The Bursars in Philosophy receive £40 each per annum, and those in Divinity, £41 2s. 6d. The appointment is now vested in the Duke of Hamilton.

In 1858, the surplus funds of this foundation having greatly accumulated, an Act of Parliament was obtained, authorizing an increase in the number of Bursars, but providing that the total number of Bursars in Philosophy shall, at all times, bear to the number of Bursars in Divinity the proportion of four to three, as nearly as may be. The Bursaries are now fourteen in number—eight in Philosophy and six in Divinity.

Bursars in Philosophy—*Donald M'Donald, 1886 ; *Jas. Fullarton, 1886 ; Alexander Cordiner, 1887 ; Dugald M'Donald, 1887 ; Joseph Sillars, 1888 ; James Walker, 1888 ; Archibald Hunter, 1889 ; John A. Nicholls, 1889.

Bursars in Divinity—*James M. Crawford, 1888 ; *John Kerr, 1888 ; *James S. Naismith, 1888 ; Duncan H. Brodie, M.A., 1889 ; John Colville, M.A., 1889 ; Robert H. Kerr, 1889.

ELDER BURSARIES.—With a view to the encouragement of merit shown by the sons of working men, Mrs. Elder has intimated her intention of giving annually to the most deserving student of the Science and Art Classes in connection with the Young Men's Christian Association, Govan Section, a Bursary of £25 per annum, to which will be added by the Department of Science and Art an equal sum, making £50 in all. The Bursaries will be tenable for two years.

Candidates must have taken the undermentioned classes in the Govan Science and Art Section :—Mathematics (2nd stage) ; Theoretical Mechanics (Elementary) ; Steam and the Steam Engine, or Naval Architecture (advanced stage).

The competition by which the Bursar is to be selected will be in the above subjects, and will be conducted by the Department of Science and Art at the May examination. The second examination will be held in May, 1890.

Candidates must be employed in workshops on the Govan side of the Clyde from Glasgow to and including Renfrew, or must reside in the district. A Bursar will be required to enrol in and attend the following classes at the University during the first year of his

* Vacant through lapse of time.

attendance : (1) Natural Philosophy ; (2) Chemistry (lectures); (3) Mathematics ; (4) Naval Architecture and Marine Engineering. During the second year of attendance : (1) Mathematics ; (2) Civil Engineering and Mechanics (lectures); (3) Naval Architecture and Marine Engineering. These Bursaries are to be continued during Mrs. Elder's pleasure.

Bursar—Wilfrid Lawson Patrick, 1889.

JAMES EWING ENTRANCE BURSARIES (*Arts*).—Four in number, founded in 1879, by the Merchants' House of Glasgow, in accordance with the Deed of Endowment of the late Mr. James Ewing of Strathleven. The Directors resolved to apply annually £80 of the income of his legacy of £10,000 for educating, training, and settling in business the sons of Glasgow merchants in entrance Bursaries of £20 each. The Bursaries are tenable for four years by Students giving regular attendance on classes in the Faculty of Arts. Open to first year's students. The appointments to the Bursaries will be made in accordance with the annual Bursary competition at the commencement of the session ; candidates to be qualified as above. Applications to be lodged with Wm. H. Hill, LL.D., Clerk of the Merchants' House, on or before 1st October, in each year.

Bursars—*J. Campbell Smith, 1886 ; Henry A. Watson, 1887 ; Robert Lamond, 1888 ; William Donald, 1889.

EXCHEQUER BURSARIES (*Arts and Theology*).—These Bursaries, six in number, were founded by King William III., in 1695. They are tenable for six years ; the first in Logic, the second in Moral Philosophy, the third in Natural Philosophy, and the last three in Divinity. In case of a vacancy by death or otherwise, a student of the same standing with the late Bursar is appointed for the remainder of the time. The Bursars in Philosophy receive £10 per annum each, and those in Divinity £13 6s. 8d. The Patrons are the Lords of the Treasury, who select one out of a list of six students transmitted to them by the Senate. (Regulated by Act of Parliament, 1758.)

Bursars—*Alexander W. Mackinlay, 1887 (1884) ; John Campbell, M.A., 1888 (1885) (Divinity) ; Hugh S. Given, 1886 (Divinity) ; James R. Cameron, 1889 (1887) (Divinity) ; Andrew M'Allister, 1888 (Nat. Phil.) ; David Young, 1889 (Mor. Phil.).

JAMES FERGUSON BURSARIES (*Theology, Law, Medicine, or Department of Engineering Science*).—Two in number, founded in 1877, under provision of the Trust Disposition and Settlement of the late James Ferguson, Esq., of Wiston, and consisting of the annual proceeds of a sum of £3,600. The Bursaries are tenable for two years in any of the three Faculties of Divinity, Law, or Medicine, or in the Department of Engineering Science. The Bursaries are awarded for special proficiency in Arts studies, according to the following

* Vacant through lapse of time.

rotation, viz. :—In November, 1878, and thereafter, triennially, in Mental Philosophy, including English Literature; in November, 1879, and thereafter, triennially, in Mathematics; in November, 1880, and thereafter, triennially, in Classical Literature. The Examination is the same as that for honours in the corresponding department (with the addition in the case of the Department of Mental Philosophy of a paper on English Literature), at the annual Examination for Degrees in November. Candidates must have completed the course of attendance required for admission to examination in the corresponding department for the Degree of M.A. Each Bursar must pursue the course of study for such Degree in Divinity, Law, Medicine, or Engineering Science, as he may, with approval of the Senate, select. In the event of a successful candidate not having completed attendance on the Arts classes necessary to qualify for the Degree of M.A., he shall be at liberty, without forfeiting his right to the Bursary, to continue his studies in Arts for two years, in order that he may complete his qualifications for graduation; but no part of the Bursary shall become payable until he has selected and entered upon a course of study in one of the three Faculties above mentioned, viz. :—Divinity, Law, or Medicine, or in the Department of Engineering Science. While the Bursary is tenable for two years of such course, the Bursar must continue his attendance on classes beyond the two years, if this be necessary for graduation or for receiving the Certificate of Proficiency in Engineering Science. The Bursar shall not receive payment of any half-yearly Burse without such evidence as the Senate may require that he is faithfully pursuing the selected course, and shall not receive payment of the fourth half-yearly Burse until he has graduated or received the Certificate of Proficiency in Engineering. Unless a candidate comes up to at least the standard of Second Class Honours, the Senate shall not be bound to award the Bursary. There is a preference, *ceteris paribus*, to young men natives of the parishes of Lesmahagow or Muirkirk, or the province of Pictou, Nova Scotia, and also to young men of the name of Ferguson or Weir, or to descendants and relatives of the founder.

Candidates for the Bursary to be competed for in 1890 will be examined in Mental Philosophy, including English Literature, on *Saturday, 1st November, Wednesday and Thursday, 5th and 6th November*, along with the examinations on these subjects for the Degree of M.A. Names to be given in to the Assistant Clerk (Matriculation Office) not later than 1st October.

Bursars—*Allan Kirkwood, 1888; James F. Gemmill, 1889.

FORFAR BURSARIES (*Arts*).—Founded by the Countess of Forfar in 1737, and foundation remodelled by the Universities Commissioners, by ordinance of 31st May, 1862. There are now four Forfar

* Vacant through lapse of time

Bursaries in the gift of the Senate: the holder of each to receive £30, if the funds allow. These Bursaries are open for competition to all students entering the first or second session of attendance in the Faculty of Arts, and are tenable for four years; subject to the condition that the Bursar shall pass the examinations required of students proceeding to the Degree of M.A. In the event of a vacancy occurring otherwise than by lapse of time, a student of the same standing as the late Bursar may then be appointed for the remainder of the period, otherwise the Bursary continues vacant till the end of that period.

Bursars—*Charles H. Brown, 1886; †William K. Hutton, 1887; Frederick W. Johnston, 1888; Joseph Macnaughtan, 1889.

FORREST BURSARIES (*Any Faculty*).—Founded by Mr. William Forrest of Easter Meadowhead, Drungelloch, and Meadowside, by Deed of Mortification, of date 6th March, 1858. The Trust was re-constituted in 1886, under a Scheme of the Educational Endowments Commission. The Bursaries are five in number, each of the annual value of £22, and tenable at the University of Glasgow, for such number of years, not exceeding five, as the Governors may determine. The Bursaries are awarded by competitive examination among young men who require aid in obtaining a University education, and who have been pupils in public or State-aided schools within the parishes of New Monkland, Slamannan, and Shotts, or who are natives of said parishes. Bursars cannot hold another Bursary, must prosecute a course for some degree, and attend at least two classes each session.

Governors—The Provost of Airdrie, the ministers of the parishes of New Monkland, Airdrie, and Clarkston, one representative from each of the School Boards of Airdrie and Clarkston, and one from the School Boards of Slamannan and Shotts alternately, and one appointed by the Sheriff of Lanarkshire. Secretary and factor, Mr. James Chapman, Town-clerk, Airdrie. (Three vacancies.)

Bursars—Guy S. Peebles, 1889 (3 years); Andrew R. Cowie, 1889 (3 years).

FOUNDATION BURSARIES (*Arts*).—These Bursaries, four in number, were founded by James VI., in 1577, for students in Languages and Philosophy. The value of each is £10 per annum. The right of presentation belongs to the Senate. By ordinance of the Universities Commissioners, of date 7th June, 1862, these Bursaries are put upon the same footing as the Forfar Bursaries (for which see above).

Bursars—*William R. Paterson, 1888 (1886); William R. Kerr, 1888 (1887); John G. Spens, 1889 (1888); William S. Templeton, 1889.

FULLARTON OF OVERTON BURSARIES (*Arts*).—By Deed of Mortifi-

* Vacant through lapse of time.

† Vacant through resignation.

cation and Constitution, dated 22d December, 1877, the Executors of the late John Fullarton, Esq., of Overton, West Kilbride, Ayrshire, in pursuance of his Trust Disposition and Settlement and codicils, assigned to the Principal and Professors of Glasgow University, as Patrons, the residue of his estate, amounting to £2,604 17s. 7d., for the purpose of founding five Bursaries, more or less, each of the annual value of at least £10, but not exceeding £30. The Bursaries are tenable for two years by students in Arts under 25 years of age, belonging to or resident in the district of Cunninghame, in Ayrshire, children of parents whose means and social position are not above those of tradesmen, small farmers, or shopkeepers, or others who may be struggling to secure their better education, and are by themselves, or with such assistance as they may be able to get from their parents or relations, unable to provide for the expenses of a University education. The Bursaries are awarded by competitive examination in Latin, Elementary Mathematics, and English; but no candidate is eligible who has attended any University for more than one session. A Bursary may be divided between two candidates of equal or nearly equal merit, but as between a candidate who has not previously attended any University and a candidate who has so attended, the former is preferred. A Bursar may attend each session one or more of the classes in the Faculty of Arts, the selection of classes being left to his own option. The estate is in the meantime burdened with annuities amounting to the sum of £30 sterling. Any accumulations through vacancies are added to the capital sum. Candidates are required to produce evidence of age. (Two vacancies.)

Bursars—*Alexander Dale, 1888; *John S. Boyd, 1889 (1888); James C. Paterson, 1889; William Jack, 1889; William R. Skeoch, 1889.

GENERAL COUNCIL BURSARIES (*Arts*).—Under a scheme originated by Mr. David Hannay, clerk to the General Council, a sum of about £500 (Fund No. I.) was raised by subscription among the members of Council for the foundation of Bursaries to be held for three years, and to be open to competition to first and second year's students in Arts. This fund will be exhausted by the payments to the Bursars already appointed. In addition, a sum of £2,300 (Fund No. II.) has been raised to form the nucleus of a permanent General Council Bursaries Fund. Of this sum £1,000 is due to the liberality of the late Rev. Wm. Park, D.D., minister of Airth, to be applied in memory of his deceased brother, the Rev. John Park, D.D., minister of Cadder. With Dr. Park's consent, this sum was appropriated to two Park General Council Bursaries of £20 a-year, open to second year's students, and tenable for two years. (Two vacancies.)

Bursars—*James C. Findlay, 1888 (1887); R. Bruce Taylor,

* Vacant through lapse of time.

1888; *James H. O. Johnston, 1888 (Park, £20); Gavin L. Pagan, 1889; Walter S. Findlay, 1889 (Park, £20).

JOHN GIBSON BURSARIES (*Any Faculty*).—Founded in 1877 by Miss Jane Gibson, in memory of her father, John Gibson, of Oak-bank and Johnstone, merchant in Glasgow. The Bursaries, which may be given to one student, or at most two, consist of the annual proceeds of £1,000. The administration is vested in trustees, who have great discretionary powers as to the conditions on which the Bursaries may be held. When a vacancy occurs applications are to be made to James Graham, Esq., writer, 198 West George Street, Glasgow, who will furnish forms of application. The Trustees intend to appoint to the Bursary now vacant a Student of Medicine entering on the second year of his course.

Bursar—*John Calderwood, 1887; John J. Boyd, 1889.

GILCHRIST BURSARY (*Arts*).—Founded by Mr. John Gilchrist, in 1700, for a student in Philosophy, being the son of a tradesman freeman in the Burgh of Glasgow. Preference to names Gilchrist, Bryce, and Boyd. Value, £8 per annum. Appointment by the Trades' House. (Vacant.)

GILHAGIE BURSARY (*Theology*).—Founded in 1753 by Agnes Gilhagie, widow of William Somerville, merchant in Glasgow, for a student in Divinity. Tenable for four years. Value, £6 6s. per annum. Appointment by the Magistrates, Town Council, and Ministers of Glasgow.

Bursar—William Vallance, 1889.

GLASGOW CITY EDUCATIONAL ENDOWMENTS BURSARIES (*Arts*).—Under scheme 10, section 31, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 19th May, 1885, the Governors of the Glasgow City Endowments Board are instructed to apply the annual sum of £500 in establishing Bursaries at the University of Glasgow. Each Bursary is of the yearly value of £25. One half of these Bursaries are to be awarded among the Queen's Scholars at Training Colleges who have attended two years at the University of Glasgow, on the report of the Board of Examiners appointed by the Scotch Education Department. Every Queen's Scholar obtaining such Bursary shall be taken bound to complete his curriculum for a degree in Arts or Science during the time he holds the Bursary, and thereafter to submit himself for examination for such degree. The other half of the Bursaries are to be awarded by competitive examination among those who have attended public or State-aided schools in Glasgow, and who require aid in obtaining a University education. They are tenable for four years. Forms of application may be had from the Secretary of the Board—Dr. F. L. Robertson, Hutchesons' Buildings, Ingram

* Vacant through lapse of time.

Street—and should be lodged with him on or before the 1st day of October in each year. The names of candidates who are found to possess the prescribed qualifications will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in order of merit who fail to win a Bursary at the general competition. In 1890 five Queen's Scholars and two other Bursars will be appointed.

Bursars—*Robert B. Douglas, 1886; *John Selkirk, 1886; George Duncan, 1887; Murdoch Ross, 1887; Ebenezer Scott, 1888; William Martin, 1888; William Vallance, 1889; William S. Macmillan, 1889; Robert Wilson, 1889; Campbell M. Macleroy, 1889.

Queen's Scholars—*Robert M'Connachie, 1888; *Andrew Struthers, 1888; *Robert M'Gregor, 1888; *Donald M'Kinven, 1888; *David M. Simpson, 1888; Thomas M. Fawns, 1889; George Irving, 1889; John Edwards, 1889; Alexander Donaldson, 1889; Charles S. Dougall, 1889.

GEORGE GRANT BURSARY (*Arts*).—Founded in 1885 by Miss Susan Smith Grant, of West Thorn, Lauder Road, Edinburgh, in memory of her father, George Grant, Esq., cotton spinner, Mile-end, Glasgow. Miss Grant assigned and conveyed to the Senate the sum of £1,200 in trust, to be applied in all time coming for providing one Bursary in connection with the Faculty of Arts. Miss Grant retains the right of nomination to the Bursary during her lifetime, but has provided that in the event of her failing or declining to nominate, and in all cases after her death, the Bursar shall be determined by competitive examination of first year students who are entering on a three or four years' course of study, and the Bursary shall be tenable for three or four years accordingly. On the Bursary falling vacant otherwise than by lapse of time, an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar is required to graduate in Arts, and before payment of the second moiety of the last year's Bursary he must produce evidence that he has taken his degree, or that he has obtained all the certificates necessary for graduation. Any accumulations from vacancies or otherwise are to be added to the capital sum.

Bursar—David Fergusson, 1889.

GEORGE GRANT, JUNIOR, BURSARY (*Arts*).—Founded in 1885 by Mrs. Agnes Grant or Mair, wife of the Rev. John Mair, D.D., minister of the parish of South Dean, Roxburghshire, in memory of her brother, the late George Grant, junior, cotton manufacturer, Mile-end, Glasgow. Mrs. Mair, with the advice and consent of her husband as her curator and administrator-in-law, and for his interest in the premises, assigned and disposed to the Senate the sum of £1,200 in trust, to be applied by them in all time coming for pro-

* Vacant through lapse of time.

viding one Bursary in connection with the Faculty of Arts. Mrs. Mair reserves to herself during her lifetime, and thereafter to her husband, should he survive her, the right to nominate to the Bursary, and to fix the classes to be attended by the Bursar and the period of his tenure. After the death of the survivor the period of tenure of the Bursary is to be four years, and the Bursar is to be selected by competitive examination of first year's students. In the event of a vacancy occurring otherwise than by lapse of time an appointment may be made for the remainder of the term, or for the full period after competition. The Bursar shall require to graduate in Arts, and before payment of the second moiety of the last year's Bursary shall produce evidence that he has taken the degree, or that he has obtained all the certificates necessary for graduation. Any accumulations through vacancies or otherwise to be added to the capital sum.

Bursar—Peter N. Grant, 1885.

HAMILTON BURSARIES (*Arts and Theology*).—These Bursaries, now six in number, were founded by Anne, Duchess of Hamilton, in 1694. The conditions of tenure are exactly the same as in the case of the Exchequer Bursaries; see page 180. The Bursars in Philosophy receive £20, and those in Divinity £25, per annum each. The right of presentation is vested in the Duke of Hamilton. (Regulated by Act of Parliament, 1758.)

Bursars—*John MacGregor, 1889 (1884); Thomas D. M'Ilvean, 1885 (Divinity); Angus M'Donald, 1886 (Divinity); Frederick A. Andrews, 1887 (Divinity); James P. Baird, 1888 (Nat. Phil.); John C. M'Naught, 1889 (Mor. Phil.).

HAMILTON EDUCATIONAL TRUST BURSARIES (*Arts*).—Under scheme 39, section 28, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council on 13th May, 1887, the Governors of Hamilton Educational Trust are instructed to apply a sum, not less than £50 yearly, in providing University or Technical College Bursaries. These Bursaries, each of the yearly value of £15, and tenable for three years, are open to be competed for by pupils attending public or State-aided schools in the burgh and parish of Hamilton, who require aid in obtaining a University or higher education. Applications to be lodged with Patrick Keith, Esq., Hamilton, Clerk of the Trust, on or before the first day of October. (Two vacancies.)

HANNAY BURSARIES (*Arts*).—Three in number, founded in 1865 by the late Mr. Anthony Hannay, merchant, Glasgow, in memory of his deceased wife. To be awarded to young men, not under fourteen, and not above nineteen years of age, who are about to commence their studies in the Arts classes, with a view to the Holy Ministry

* Vacant through lapse of time.

in connection with any of the Evangelical Religious Denominations in Scotland, and who shall engage to attend during each of the first three years of the curriculum not fewer than two classes. The principal qualifications of those to be selected are good moral character, promising talent, a fair preliminary education, and a want or deficiency in the necessary pecuniary means for pursuing a University education. Candidates for these Bursaries are required to submit themselves to the annual Bursary Examination at the commencement of the Winter Session of the University of Glasgow, or such other examination as the trustees may appoint; but the result of said examination shall only be taken as one of the tests in judging of the merits of the applicants. The Bursaries to be bestowed for three years—one to be given each year. Value, about £15 per annum each. The appointment is vested in the Principal, the Dean of the Faculty of Procurators in Glasgow, and the President of the Faculty of Physicians and Surgeons in Glasgow. Applications to be made to Mr. Robert Brodie, 77 St. Vincent Street, and also to the Assistant Clerk (Matriculation Office) not later than 1st October.

Bursars—*Dugald Macmillan, 1887; John McCallum, 1889 (1888); George S. Yuille, 1889.

HASTIE BURSARIES (*One in Arts and Two in Theology*).—In 1772 the Rev. Mr. Hastie founded a Bursary for a student in this University. By an addition since made to the foundation, the number of Bursaries is increased to three, two in Divinity and one in Philosophy.

By ordinance of the Universities Commissioners, 31st May, 1862, there are three Bursaries on this foundation, each £25 in value—one in Arts, tenable on the same conditions as the Forfar; the other two in Theology, open to competition to all Masters of Arts of any of the Scottish Universities entering upon the first or second year in Divinity, and tenable for three years.

Bursar in Arts—William G. Skinner, 1889.

Bursars in Theology—William Campbell, M.A., 1888; William Howie, M.A., 1889.

HOWISON BURSARY (*Arts*).—Founded in 1613 by the Rev. John Howison, of Cambuslang. The Bursar to be a qualified scholar of honest name and good report, son of a craftsman of Glasgow, whom failing, any other qualified scholar selected by the Patrons. Annual value, £9. Appointment by the Trades' House. "The Bursar to pass his course within the College."

Bursar—Henry A. Neville, 1886.

HUTCHESONS' EDUCATIONAL TRUST BURSARIES.—Under Scheme 9 Section 40, of the Educational Endowments (Scotland) Commission, approved by Her Majesty in Council, on 5th March, 1885, the

* Vacant through lapse of time.

Governors of Hutchesons' Educational Trust are instructed to apply an annual sum of not less than £400 in establishing University or Technical College Bursaries. These Bursaries, each of the yearly value of £20, and tenable for four years, are open to be "competed for by boys who have attended not less than two sessions in the Secondary Department of Hutchesons' Grammar School." Forms of application may be had from the Secretary of the Trust—Dr. F. L. Robertson, Hutchesons' Buildings, Ingram Street—and should be lodged with him on or before the first day of October in each year. The names of candidates who are found to possess the prescribed qualification will be sent by him to the Clerk of Senate that they may be entered at the University competition for Bursaries for the first year. The Bursaries will be awarded to those candidates highest in the order of merit who fail to win a Bursary at the general competition. In 1890 five Bursars will be appointed.

Bursars—*David Connor, 1886; *John M'Fadyen, 1886; *William Richmond, 1886; *Jas. Stirling, 1886; *Daniel Wright, 1886; William Clow, 1887; J. M. Cocker, 1887; David Lamb, 1887; William Murray, 1887; William Sharp, 1887; Benjamin Dodd, 1888; Walter S. Findlay, 1888; George Kerr, 1888; Robert Nisbet, 1888; Charles Thomson, 1888; John Ruggan, 1889; Malcolm M'Lucas, 1889; John M. Forsyth, 1889; John M. Hodge, 1889; John D. Louttit, 1889.

HYNDFORD BURSARY (*Arts*).—Founded in 1617 by Mr. Michael Wilson, for a student in Philosophy. Tenable for four years. Value, £6 13s. 4d. per annum. The right of presentation belongs to the representative of Sir James Carmichael, who is at present Sir W. C. Anstruther, Bart.

Bursar—Gilchrist G. Alexander, 1888.

JOHN FERGUSON JAFFREY BURSARY IN MENTAL PHILOSOPHY (*Arts*).—This Bursary, founded in 1877, is of the annual value of £34, "and shall be awarded to a student on entering the third session of his attendance, *i.e.*, a student who has attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Logic, Moral Philosophy, and English Literature, or who, having passed the Preliminary Examination in Humanity and Greek, has attended for one session the higher classes in those subjects, and who intends to prosecute a full course in the Department of Mental Philosophy, including English Literature." Candidates are examined in such subjects in English Literature and Logic as may be fixed by the Senate. The examiners are the Professors of English Literature, Logic, and Moral Philosophy. The Bursary "shall, as a rule, be tenable for two years, but on condition that the Bursar, during the two years of his tenure, shall complete his attend-

* Vacant through lapse of time.

ance on the classes in the Department of Mental Philosophy (including English Literature, unless he shall have attended that class during one of his previous sessions), and shall also attend one at least of the advanced classes taught by the Professors of Logic and Moral Philosophy, and shall pass the departmental examination in Mental Philosophy for degrees." The subjects of examination are—Professor Veitch's *Institutes of Logic*, Part I. (Large print only); Descartes (English Translation of 1879 or subsequent edition), Introduction, sections I., II., III.; *Discourse on Method*; *Meditations*, I. and II.; Spalding's *English Literature*, pp. 169-269; Milton's *Paradise Lost*, Book I.; Zeller's *Socrates and the Socratic Schools* (translated by Reichel), pp. 1-200.

Bursar—James A. Clark, 1889.

MALCOLM KERR BURSARIES (*Arts—Nat. Phil. and Medicine—Chem.*).—Two in number, founded in 1874, and consisting each of half the free annual proceeds of a sum of £1,000, bequeathed by the late Mr. Malcolm Kerr, stationer in Glasgow. One of the Bursaries is in Natural Philosophy, the other in Chemistry. The Bursaries are given on examination, and are tenable for three years, provided the Bursars continue for so long to prosecute in the University Laboratories, to the satisfaction of the Senate, the study of Natural Philosophy and Chemistry respectively. The subjects of examination in Natural Philosophy are the same as those for M.A., with Second Class Honours; and in Chemistry, the same as those for M.A., with Honours in Natural Science. Present value, £18 to each Bursar.

Bursar in Natural Philosophy—*Thomas Shields, M.A., 1887.

Bursar in Chemistry—William Francis, 1889.

THE KINTYRE (KER) BURSARY (*Any Faculty*).—This Bursary founded in 1862 by Robert Ker, Esq., of Auchinraith, merchant in Glasgow, originated in the Founder's desire "to increase the opportunities of acquiring knowledge to the natives of Kintyre."

The Office-bearers of the Kintyre Club were appointed Patrons. By the Deed of Mortification, the free proceeds of a sum of £500 sterling—about £20 sterling—were appointed to be paid to a student to be nominated by them, and who should enjoy the said Bursary for the term of three years while prosecuting his studies at the Glasgow University, with power to the Patrons to determine, in every case, whether the Bursary should be granted for a longer or shorter period than three years, but in no instance is it to be granted for a longer period than four years to the same student. No restriction is placed upon the student as to his profession or calling. Applications to be lodged with the Honorary Secretary of the Kintyre Club, R. Harvey Pirie, LL.B., 173 St. Vincent Street, Glasgow.

Bursar—Malcolm M'Kinnon, 1889.

LAING BURSARY OR BURSARIES (*Arts*).—The late Alexander Laing,

* Vacant through lapse of time.

LL.D., some time Professor of Mathematics in Anderson's College, Glasgow, who died in 1882, bequeathed to trustees the sum of £500 to found one or two Bursaries in the Faculty of Arts. The trustees by a deed, dated 26th July, 1883, conveyed to the Senate the sum of £500 of the preference 4 per cent. stock of the Glasgow and South-Western Railway Company, under certain conditions and regulations. The foundation is for providing, in the option of the Senate, one Bursary of £20, or two of £10 each. The Bursary is open to competition to all students entering on their first session in the Faculty of Arts (a preference being given, *cæteris paribus*, to natives of Brechin). The period of tenure is three years. Should the Bursary become vacant otherwise than by lapse of time, the income of the fund during the vacancy is to be added to capital.

Bursar—*William Kirk, 1887.

LAMB BURSARY (*Arts or Theology*).—Founded in 1863, by the late Rev. Dr. William Lamb, minister of Carmichael, and appropriated to a student in Arts or Divinity. Bursar appointed by the Minister and Kirk Session of Carmichael, and a preference given to any applicant in the parish of Kirkmichael or Pittenain, whom failing one may be chosen from any other parish in the Presbytery of Lanark. Value about £12 per annum.

Bursar—James C. Paterson, 1889.

LEADBETTER BURSARY (*Arts*).—Founded in 1855 by Mr. John Leadbetter, merchant, Glasgow. It is £9 in value and tenable for four years; the Bursar attending Greek and Latin the first year; Logic and Mathematics the second year; Moral Philosophy and Mathematics the third year; and Natural Philosophy the fourth year. Preference to boys who have attended the five years' Classical Course of the High School of Glasgow. Patrons—The Lord Provost and Magistrates.

Bursar—John Semple, 1887.

LEIGHTON BURSARIES (*Arts and Theology*).—Robert Leighton, Archbishop of Glasgow, founded in 1681 two Bursaries, at present of the value of £9 per annum each. They are tenable for four years in Philosophy, and two or three years in Divinity. On a vacancy, two students are nominated by the Town Council, and examined by the Senate, who prefer the best scholar.

Bursars—Frederick Dittmar, 1886; David Landsborough, 1887.

JOHN LEYDEN BURSARY (*Arts*).—Founded in 1879 by the Glasgow Border Counties Association in memory of John Leyden, poet and scholar. The Fund consists of the sum of £429 3s. 8d. raised by subscription. The Bursary is open to free competition under the same regulations as the competition Bursaries in the University.

* Vacant through lapse of time.

Tenable for three years. The holder to pass through the Arts course, and at the termination thereof to take the Degree of M.A.

Bursar—*Frank S. Young, 1887.

OLD LIBRARY BURSARY (*Theology, Law, or Medicine*).—Founded by Mr. Hutcheson, of Lambhill, in 1641. Tenable for four years. Value, £11 2s. 2½d. per annum. The Bursar must be M.A. Preference to a son of a burgess, particularly one of the name Hutcheson or Herbertson. The Patrons are the Magistrates and Town Council of Glasgow.

Bursar—Thomas H. Lillie, M.A., 1889.

JAMES LOCHHEAD BURSARY (*Arts*).—Founded in 1886 in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £500 for that purpose, in memory of her brother, who died in Ohio. A preference is given to students of the name of Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. The Bursary is tenable for three years in the Faculty of Arts.

Bursar—*Allan M. Smith, 1887.

LOCHHEAD AND MITCHELL BURSARIES (*Arts*).—Two in number and of equal value, founded in 1886, in terms of the Trust Disposition and Settlement of Mrs. Robina Mitchell, who bequeathed £2,000 (free of legacy duty) for that purpose. A preference is given to students of the name of Mitchell or Lochhead, whose parents are members of the Established Church of Scotland, whom failing to students whose parents are members of the said Church. They are tenable for four years in the Faculty of Arts.

Bursar—Campbell C. Edgar, 1887; Alexander Taylor, 1888.

LOGAN BURSARIES (*One in Theology and One in Medicine*).—Two in number, one in Divinity and one in Medicine, founded in 1863, by Mrs. Logan, widow of Mr. William Logan, tinsmith in Glasgow. The Bursary in the Faculty of Divinity is tenable for three years, and the one in the Faculty of Medicine for four years. A preference, *cæteris paribus*, is given to the names Logan and Johnstone. The value of each is £16 per annum. Appointment by the Senate.

Bursar in Theology—*John Maclachlan, 1887.

Bursar in Medicine—Frederick H. Waddy, 1889.

LORIMER BURSARIES (*Four in Theology, Four in Medicine, and Eight in Arts*).—By Trust Disposition and Settlement, of date 17th October, 1872, the late Mr. John Lorimer, merchant in Glasgow, directed his Trustees to make over to the Principal and Professors of the University of Glasgow, the residue of his estate, amounting to the sum of £8,594 5s. 5½d., the annual proceeds of £5,000 thereof

* Vacant through lapse of time.

to be applied in payment of Bursaries of an amount not exceeding £50 each, and tenable for three years. One Bursary at least is to be payable to a matriculated student of each of the following subjects :—1, Theology ; 2, Medicine ; 3, Philosophy ; 4, Mathematics ; and the proceeds of the remainder of such residue are to be applied in payment of smaller Bursaries tenable by students of the above-mentioned subjects.

The following regulations have been adopted by the Senate :—

1. The Bursaries shall be sixteen in number—namely, eight of the annual value of £25, and eight of the annual value of £20, and shall be tenable for three years.

2. Four Bursaries—viz., two at £25, and two at £20 shall be held by Students of Theology, and shall be open to competition to students entering the Divinity Hall. The second moiety of the third year's Bursary shall not be paid until the Bursar shall have passed the examination for the degree of B.D.

3. Four Bursaries—viz., two at £25, and two at £20, shall be held by Students of Medicine, and shall be open to competition to students who have attended the first session of their professional study in the University of Glasgow, and who have passed in all the seven subjects of the examination in General Education for M.B., or who possess such a degree in Arts as is recognised by the University as exempting from an examination in General Education. The subjects of examination, which shall be prescribed by the Medical Faculty, are Elementary Anatomy, Elementary Chemistry, and Botany. The second moiety of the third year's Bursary shall not be paid until the Bursar shall have passed his Final Professional Examination for the degree of M.B.

4. Four Bursaries—viz., two at £25, and two at £20, shall be open for competition to students entering on their third session of attendance, *i.e.*, students who have attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Logic, Moral Philosophy, and English Literature, or who, having passed the Preliminary Examination in Humanity and Greek, have attended for one session the higher classes in those subjects, and who intend to prosecute a full course in the department of Mental Philosophy, including English Literature. Candidates shall be examined in such subjects in English Literature and Logic as may be fixed by the Senate. The Examiners shall be the Professors of English Literature, Logic, and Moral Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment, he must enter one or more of the classes of English Literature, Logic, and Moral Philosophy, and in the course of his tenure of his Bursary must attend, besides the above classes, one or more of the higher classes in connection with the classes of Logic and Moral Philosophy. The second moiety of the third year's Bursary shall not be paid until

the Bursar shall have obtained a Certificate in the Mental Philosophy Department for a Degree in Arts.

5. Four Bursaries—viz., two at £25, and two at £20, shall be open for competition to students entering on their third session of attendance, *i.e.*, students who have attended at any of the Scottish Universities during each of the two previous sessions at least two classes in the Faculty of Arts other than the classes of Mathematics and Natural Philosophy, or who having passed the Preliminary Examination in Humanity and Greek, have attended for one session the higher classes in those subjects. Candidates shall be examined in such subjects in Mathematics as may be fixed by the Senate. The Examiners shall be the Professors of Mathematics and Natural Philosophy. Each Bursar must attend two classes in the Faculty of Arts. Immediately on his appointment he must enter the class of Mathematics, and prosecute the course of study required for obtaining a certificate in the Mathematical Department for a Degree in Arts. The second moiety of the third year's Bursar shall not be paid until the Bursar shall have obtained this Certificate.

In session 1890-91 eight of the above £20 Bursaries will be open to competition—viz., two in Theology, two in Medicine, two in Philosophy, and two in Mathematics. The Bursaries in Theology will be decided by the results in the general competition for Bursaries in Theology. The competition for the Bursaries in Medicine will be held along with the examinations for the Rainy Bursary. For the Bursaries in Philosophy the subjects of examination will be those prescribed for the John Ferguson Jaffrey Bursary (see p. 188), and the examination will take place along with the November examinations for M.A. in English and Logic. The examination for the Bursaries in Mathematics will take place along with the preliminary examinations in Mathematics for M.A., but may embrace higher papers.

Bursars in Theology—*Joseph M. Frazer, M.A., 1887; *Hugh Armstrong, M.A., 1887; William Main, 1888; David H. Gillan, 1889.

Bursars in Medicine—*Robert Bell, 1887; *James G. McNaught, M.A., 1887; William R. Thomson, 1888; John Morton, 1889.

Bursars in Arts—*Thomas B. Hogarth (Phil.), 1887; *John Ronald (Phil.), 1887; *William S. Brownlee (Math.), 1887; *Daniel Lamont (Math.), 1889 (1887); John H. Pagan (Phil.), 1888; John Anderson, (Math.), 1888; David Graham (Phil.), 1889; Walter Stewart (Math.), 1889.

LUMSDEN BURSARY (*Theology*).—This Bursary was founded in 1850, by Mr. James Lumsden, stationer, Glasgow. Value £15. It is given to a Divinity student of the first year, and may be held for four years. There is a preference to sons of members, or of

* Vacant through lapse of time.

deceased members of the Stationers' Company of Glasgow. The Patrons, viz., the Principal, the Professors of Divinity, Hebrew, and Church History, and the President of the Stationers' Company—have resolved that when no candidate with a preferential claim applies for the Bursary it shall be awarded in accordance with the results of the competition for Bursaries in Theology.

Bursar—*David S. Richardson, 1889 (1886).

LUSK BURSARY (*Arts*).—Founded in 1876, in accordance with holograph settlement executed by Mr. Robert Lusk, merchant in Greenock, who bequeathed the sum of £1,000, reduced by legacy duty to £900, for "a Bursary in connection with the Glasgow University, to be given to the most successful student attending the preparatory course of studies in said University who may intend to follow out the ministry in connection with any of the Presbyterian bodies in Scotland," "and who may, on public examination or competition, be found to be best qualified and most deserving." The competition is open to first or second year's students in Arts. Tenable for three years, but may be continued for an additional year. Present value £33 per annum.

Bursar—*Gilbert Buchanan, 1887.

MACARTHUR BURSARY (*Medicine*).—Founded in 1881 by Miss Jean Macarthur, in memory of her uncle, John Macarthur, Doctor of Medicine in Glasgow. The Bursary consists of the annual proceeds of £500. The administration is vested in a Committee appointed annually by the Faculty of Physicians and Surgeons of Glasgow. The Bursary must be held by a student prosecuting the study of Medicine in the University of Glasgow. Under the rules laid down by the Committee, applicants must have completed two winter sessions of medical study. Preference will be given to applicants who have taken one or more First Class Certificates in the Medical Classes. The Bursary is tenable for two years.

Application to be made prior to 15th April to Mr. Alexander Duncan, Faculty Hall, 242 St. Vincent Street, Glasgow, who will furnish forms of application.

Bursar—Robert Bishop, 1889.

M'CRIE BURSARIES (*Arts*).—These Bursaries were founded by the Rev. James M'Crie, D.D., of Dangart, Senior Minister of the U.P. Congregation of Old Meldrum, in the County of Aberdeen. They are of the annual value of £25 tenable for four years, provided the holder passes a prescribed examination at the commencement of each session and complies with the other conditions mentioned in the Deed of Foundation. The Bursary fund consists of certain lands in the parish of Colmonell and other heritable and moveable property mortified for the purpose and vested in the Magistrates

* Vacant through lapse of time.

and Town Council of Ayr. The candidates must have been born in the parishes of Ballantrae, Colmonell, Barr, Girvan, Ayr, Old Meldrum, Tarves, Daviot or Bourtie, or in the City of Aberdeen, or in the Town of Ayr. The students must also be the sons either of mechanics, or of cottars, or of farmers, not paying more than £100 of yearly rent, or of ministers not having more than £130 of yearly income, without respect to religious sect or denomination. Candidates of the names of M'Crie, Forsyth, M'Cracken, or Spark, are to have a preference if otherwise deserving. The Bursaries may be held along with other Bursaries. Two of the Bursaries on this foundation will be competed for in October next, and the examination will be held in Ayr. Candidates will be examined on the following subjects:—Classics: Latin, Greek. Mathematics: Arithmetic, Algebra, up to and including simple equations, Euclid, Books I. to III. English: Composition, Geography, and History of Scotland. Candidates must send their names and addresses to A. G. Young, Esq., Town Clerk, Ayr, not later than 1st October, 1890.

Bursars—John Paton, 1888.

JAMES MELVILLE M'CULLOCH BURSARY (*Arts*).—Founded in 1885 in memory of the late Rev. James Melville M'Culloch, D.D., minister of the West Parish, Greenock. It consists of the free annual income of about £400. It is open to competition to students of the First year in the Faculty of Arts, who shall have been educated for not less than three years at any school or schools in Greenock. Tenable for four years, the Bursar attending the qualifying course for the Degree in Arts. The second moiety of the fourth year's Burse shall not be paid until the Bursar shall have passed all the examinations required for the Degree of Master of Arts. In the event of a vacancy occurring otherwise than by lapse of time, the Senate may appoint a student of the same standing qualified in like manner, or may arrange a new competition.

Bursar—Malcolm Dunlop, 1889.

MACDONALD BURSARIES (*Arts, Law, or Medicine*).—Two in number, founded in 1882, in terms of the Trust Disposition and Settlement of Mr. Alexander Macdonald, M.P., who bequeathed to the University £1,000 for the purpose of assisting students in a course of purely secular education. The Bursaries are equal in value and tenable for four years in Arts, Law or Medicine. Only miners under the age of twenty-one years, who have worked underground in any part of the United Kingdom, are eligible as candidates. The Bursaries are awarded in accordance with the results of an examination in general knowledge, particularly in writing, arithmetic, geography, grammar, and history.

Bursars—Peter Campbell, 1889; George L. Wilson, 1889.

JOHN AND ISABELLA MACDOUGALL BURSARIES (*Arts*).—Founded in 1884, under the Trust Disposition and Deed of Settlement of Miss Isabella Macdougall, Perth. Miss Macdougall directed her Trustees to devote the residue of her means and estate to the foundation and endowment of one or more Bursaries, payable to students born in the county or city of Perth, attending the classes in the Faculty of Arts, in the Universities of Edinburgh, Glasgow, and St. Andrews. The Bursaries are of the annual value of about £33, and are tenable for a period not exceeding three years. The Trustees are the Patrons. The candidates, who may be of any religious denomination, must undergo an examination by examiners appointed by the trustees. The Bursaries are open to students who are either (1) about to enter on their first session, and who shall pass the Preliminary Examination in Arts, or (2) who have already attended the junior classes for one session. A vacancy occurring otherwise than by lapse of time may be filled up by the appointment, after examination, of a student of equal standing with the retiring Bursar. It is not competent for any person to hold any of these Bursaries along with any other Bursary or appointment yielding to him an annual income of fifty pounds or upwards. The Trustees are the following ministers in Perth, viz.:—The Rev. Wm. G. H. Carmichael, East Church Parish; the Rev. Archd. Fleming, St. Paul's Church Parish; the Rev. Robert Milne, West Church Parish; the Rev. William Stevenson, Middle Church Parish; and their successors in office for the time being, and Mr. Wm. Cochrane Young, solicitor in Perth. Candidates are requested to send in their names and addresses to Mr. Young, 9 St. John Street, Perth, on or before 1st September. (One vacancy.)

Bursars—*John Stewart, 1887; *James Russell, 1887; Joseph B. Logie, 1888; George A. Stalker, 1889; Charles D. M. Ross, 1889.

MALCOLM M'EWEN BURSARY (*Arts or Science*).—Mr. William M'Ewen, tobacco manufacturer, Glasgow, who died on 16th December, 1878, by his Trust Disposition and Settlement, dated 28th November, 1878, directed his trustees, Mr. James Boyd, writer, Glasgow, and others, to devote a sum of £500 to the foundation of a Bursary in the University of Glasgow, to be called the "Malcolm M'Ewen Bursary," in memory of his brother, Mr. Malcolm M'Ewen, who died on 16th January, 1878. The Bursary was founded in 1884. After consultation with the Senate, the Trustees resolved that the regulations for the Bursary should be as follows:—The Bursary is open to competition at the annual Bursary Examination to all students entering on the first session of attendance at the University, is awarded by the Senate in accordance with the results of that examination, and is tenable for four years. The Bursar on his

* Vacant through lapse of time.

appointment must elect to follow either the course of study qualifying for the Degree of M.A., or the course of study qualifying for the Degree of B.Sc., and must attend at least two classes each winter session. The Bursary is payable by equal moieties on the second day of February, and at the close of the winter session, but the second moiety of the fourth year's Bursary shall not be paid until the Bursar shall have passed all the examinations for the Degree appropriate to the course of study chosen by him at the beginning of his tenure of the Bursary. A vacancy occurring otherwise than by lapse of time may, in the discretion of the Trustees, either be filled up at the first term thereafter, or not till the usual term at which the competition for the Bursary would, in ordinary course, have fallen due, and, in the latter event, accumulations from this source are to be added to the capital fund.

Bursar—Edward H. Wallace, 1888.

JAMES MACFARLANE BURSARY (*Theology*).—Miss Helen Macfarlane, who died on 12th March, 1886, by a codicil dated 15th August, 1882, to her Trust Disposition and Settlement, directed her Trustees, to hand over to the Senate the Portrait of her late brother, Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and the sum of £1,000 free of legacy duty for the foundation of a Bursary in the Faculty of Theology, in memory of her brother, the Rev. Dr. James Macfarlane, minister of Duddingston. Preference to the name Macfarlane. The competition is open to Divinity students of the first year, who hold a Degree in Arts of any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. The Bursary is tenable for three years, but in the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

Bursar—Matthew S. Dickson, 1888.

JOHN MACFARLANE BURSARY (*Medicine*).—Founded in 1874 by the brothers and sister of the late Dr. John Macfarlane, Professor of the Practice of Medicine in this University, and to his memory. Patrons—The Medical Faculty. Value, about £40. Tenable for three years. The competition is open to students who have attended the first session of their professional study in the University of Glasgow, and who have passed in all the seven subjects of the examination in general education for M.B. The Examination will be held at the close of the first session of professional study. The subjects of Examination to be prescribed by the Patrons; and the success of the candidates in the examination in General Education will form an essential element of the decision. Any surplus which may accumulate from vacancies or otherwise, to be applied to establish a "Macfarlane Prize" in the Class of Practice of Medicine.

The subjects of examination for this Bursary are Elementary Anatomy, Elementary Chemistry, and Botany.

Bursar—*James Hill, 1887.

MACGROUTHER BURSARIES (*Arts*).—Two in number, founded in 1872, the one by Mrs. Sophia Susan MacGrouther, widow of Mr. James MacGrouther of Leigham Court Road, Streatham, Surrey, who mortified in favour of certain trustees the sum of £500; the other by the Misses Mary and Jane MacGrouther, residing in Glasgow, his sisters, who also mortified in favour of the same trustees the sum of £500, for the purposes of the foundation, and in memory of, and in fulfilment of the intentions of, the said James MacGrouther. The Senate are the Patrons. The Bursaries are awarded by open competition among students entering the Faculty of Arts for the first time, and are tenable for four years, and on the same conditions as the Forfar Bursaries. (See page 181.)

Bursars—James Robertson, £20, 1887; John J. H. Johnston, £15, 1889.

MACKINTOSH MENTAL SCIENCE BURSARY (*Medicine*).—Founded in 1889 by Dr. Donald Mackintosh, of London, in memory of his brother, Dr. Alexander Mackintosh, for many years superintendent of the Royal Lunatic Asylum, Gartnavel. Value, about £30. Tenable for one year. The competition is open to matriculated students of medicine who have attended the Lectures on Insanity in the University, and will be awarded in accordance with the results of an examination conducted by the Professor of Practice of Medicine and the Lecturer on Insanity acting conjointly. The holder of the Bursary shall, while he continues to hold it, devote special attention to the practical study of Insanity to the satisfaction of the Faculty of Medicine. (Vacant.)

M'KECHNIE BURSARIES (*Any Faculty*).—Two in number, founded by the Disposition and Trust Settlement of the late Thomas M'Kechnie, merchant in Girvan, who bequeathed for that purpose the sum of £2,000 to the Minister of the Established Church in Girvan, the Magistrates of Girvan, and others, and appointed them patrons of the Bursaries. The Patrons, in nominating and presenting students to the Bursaries, are instructed to prefer, in the first place, such as are of the founder's kindred; secondly, such as are of the name of M'Kechnie; and thirdly, such as were born in the parish of Girvan, provided that such students are properly qualified by their previous education for entering the University of Glasgow. Failing candidates qualified as above, the Bursaries are to be awarded to those who shall be found best qualified and deserving.

Bursars—William M'Cartney, 1887; Henry D. M'Kechnie, 1887.

* Vacant through lapse of time.

MAITLAND CLUB BURSARY.—In 1888 Dr. W. H. Hill and Mr. J. Wyllie Guild, the surviving members of Council of the Maitland Club, disposed of the remainder of the stock of the Maitland Club publications, and in pursuance of resolutions passed at meetings of the Council held on 3rd and 17th August, 1870, handed over the proceeds (£140) to the Senate for Bursary purposes. The free income is to be annually bestowed without any competitive examination on such student as the Senate may consider deserving. No appointment will be made until the free annual income amounts to £5.

MARSHALL BURSARIES (*One in Theology and One in Medicine*).—Mrs. Barbara Lauder or Marshall, relict of Alexander Marshall, wholesale stationer, Bell Street, Glasgow, by her Will, dated 8th December, 1874, bequeathed to the Senatus of Glasgow University the sum of £1,000, under deduction of legacy duty, to found two Bursaries of equal value, one in Divinity and the other in Medicine. Tenable for four years. Preference to the name of Marshall, but provided “that the Principal and the Professors shall nominate and appoint such students only to the said Bursaries as they shall find, on such examination as they may appoint, to be properly qualified for entering upon the study of Divinity and Medicine at the said University.” Present value, £17 per annum to each Bursar.

Bursar in Theology—William Moffat, 1887.

Bursar in Medicine—Hugh Kerr, M.A., 1888.

MENZIES BURSARIES (*Arts*).—The late Mr. James Menzies of Glasgow, by his Will, dated 3rd November, 1837, left a sum of money to establish four Bursaries at either of the Universities of Edinburgh, Glasgow, or St. Andrews, tenable for four years, one to be given each year. The value of each Bursary is £50 per annum, but varies at the discretion of the Patrons. The Patrons are Menzies of Menzies, and the Parish ministers of Dull, Weem, and Fortingall. In the first place, the kindred of the Testator; secondly, persons of the name of Menzies; thirdly, those born on the Menzies estates, will be preferred—provided always that they shall be found properly qualified by previous education; and failing these, the Patrons can present such as shall be found best qualified after due examination. The following are the subjects of examination:—*English*, Reading and Writing from Dictation; *Arithmetic*, as far as Decimal Fractions; *Euclid*, first three books; *Latin*, Cæsar de Bello Gallico, first four books, and to translate a piece from English into Latin; *Greek*, Xenophon’s *Anabasis*, first three books. Bursars to attend in some one of the above Universities the classes in their regular order for the M.A. Degree. Candidates are requested to send their names to Mr. Geo. J. Haynes, Camserney Cottage, Aberfeldy, on or before 1st October.

Bursars—*A. R. Menzies, 1886; William Menzies, 1887; Alexander M’Duff, 1888; John Menzies, 1889.

* Vacant through lapse of time.

MERCHANTS' HOUSE BURSARIES (*One in Arts, One in Law, and Two in Medicine*).—Founded in 1879, by the Merchants' House of Glasgow. The Bursaries are of the annual value of £25 each, and are four in number—viz., two in Medicine, one in Arts, including Engineering and Mechanics, and one in Law, tenable by students attending the requisite classes in the above Faculties, with a preference to the sons of matriculated members of the Merchants' House, and such others as the Lord Dean and Directors may deem deserving. 1. The Bursaries in Medicine are tenable for four years. Candidates must be entering on their first winter session of attendance on the ordinary curriculum for Medical Students. 2. The Bursary in Arts, including Engineering and Mechanics, is tenable for four years. Candidates must be entering on their first session of study, and must attend each session two at least of the classes in the Arts curriculum, including, at the option of the candidate, the class of Civil Engineering and Mechanics. 3. The Bursary in Law is tenable for three years. Candidates must be entering on their first session of attendance on the classes in the Faculty of Law, and must give regular attendance for the three years on classes in that Faculty. The subjects of examinations for the above Bursaries will be those prescribed for the General Bursary Competition, special importance being given in the examination for the Arts Bursary to the subject of Mathematics. Applications to be lodged with W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st October, 1890.

Bursar in Arts—*William D. Creighton, 1886.

Bursar in Law—*Frederick G. Mackillop, 1887.

Bursars in Medicine—Robert C. Robertson, 1887; William B. Brodie, 1888.

METCALFE BURSARIES (*Arts*).—Founded by the late Miss Sarah Metcalfe, Glasgow, who, by her Deed of Settlement and Codicils, dated respectively 8th August, 30th September, and 7th October, 1853, bequeathed, subject to the liferent of her brother, Mr. William Metcalfe, certain properties in Glasgow, "for encouraging poor students in prosecuting the studies of Mathematics, Practical Astronomy, Chemistry, and Civil Engineering." Mr. Metcalfe died on 25th January, 1869, and by resolution of date 14th April, 1870, the Senate instituted, besides a Metcalfe Fellowship of £100 annual value (for which see Index), at least two Metcalfe Bursaries or Scholarships, each of the annual value of £25, and tenable for two years, subject to the condition that the scholar attend the four classes of Civil Engineering, Senior Mathematics, Practical Astronomy, and Chemistry; two at least of these classes to be taken each year. The scholars to be appointed by examination in Pure Mathematics, including the elements of Plane Trigonometry, of Mechanics,

* Vacant through lapse of time.

and of Theoretical Astronomy, from among matriculated students entering the senior class of Mathematics, or the class of Chemistry. One appointment will be made in November, 1890.

MITCHELL (See Lochhead and Mitchell, p. 191).

MONTEITH BURSARIES (*Arts*).—Founded in 1869 by Mr. James Monteith, of 38 Duke Street, St. James's, London. Three in number, each of the annual value of about £14, and tenable for three years. They are open for competition to all matriculated students of the Faculty of Arts, being natives of Scotland, and sons of Scottish parents, and may be held along with another Bursary. The examination to be in French and German in alternate years. Occasionally an extra Bursary will be given to the second-best candidate, of the same value as the others, but tenable only for one year. At the commencement of session 1890-91 a regular three years' Bursary will be competed for, the examination being in German.

Bursars—*Robert Scott Brown (French), 1887; John Lindsay (German), 1888; Hugh A. Blacklaw (French), 1889.

JOHN MONTEITH BURSARIES (*Medicine*).—Founded in 1884 by Mrs. Helen Monteith, Greenbank, Dowanhill Gardens, Glasgow, in memory of her husband, the late John Monteith. Mrs. Monteith assigned the sum of £1,000 to Dr. John Gray M'Kendrick, Professor of the Institutes of Medicine, Dr. James Duncan M'Laren, Fellow of the Faculty of Physicians and Surgeons in Glasgow, James Graham, writer, Glasgow, and Robert Monteith, her adopted son, as trustees, in the first instance, for the administration of the fund. The annual income after payment of the expenses of administration is to be awarded as two Bursaries to students who have attended the first and second sessions of their professional studies in the University of Glasgow with a view to Graduation in Medicine in that University, and who have passed the whole of the Examination in General Education for the Degree of Bachelor of Medicine, or who possess such a Degree in Arts as may be recognized by the University as exempting from such examination. The Bursaries are tenable for two years. One Bursary is awarded annually in the month of November, and is given to the candidate who gains the highest number of marks in the subjects of Anatomy and Physiology at the Professional Examinations in these subjects held during the previous year (*i.e.*, the April and October preceding said month of November). The founder has directed that it be represented to the holders of the Bursaries that they should feel themselves in honour bound after graduation to render professional assistance to the poor as much as may lie in their power.

Bursars—*David M'Donald, 1888; Hugh Galt, 1889.

* Vacant through lapse of time.

MUIR BURSARIES (*Four in Arts and One in Theology*).—Founded in 1880, in terms of the Trust Disposition and Settlement and Codicil thereto of the late Mr. Matthew A. Muir, merchant in Glasgow, who bequeathed to the Senatus Academicus of Glasgow University, free of legacy duty, the sum of £1,000 for providing a Bursary in connection with the Chair of Divinity, to be awarded to a student of Divinity during the last three years of his curriculum; a sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Mathematics, to be awarded to advanced students in Mathematics, the period of tenure to be fixed by the Senate; and a further sum of £1,000 for providing two Bursaries of equal amount in connection with the Chair of Civil Engineering and Mechanics, to be awarded to advanced students of Engineering and Mechanics, the period of tenure to be fixed by the Senate. Any of the Muir Bursaries in Mathematics and Civil Engineering may be held along with another Bursary.

The following rules and regulations, have, in accordance with the provisions of the Deed, been sanctioned by Mr. Muir's trustees, and are to be observed in all time coming :—

1. *Muir Bursary in Divinity*.—Candidates must be entering on their first session in Theology in the University, and the appointment to the Bursary shall be determined by the result of the annual competitive examination for Bursaries in Theology. The competition shall be open to candidates holding a Degree in Arts in any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. The Bursary shall be tenable for three years, but the second moiety of the third year's Burse shall not be paid until the Bursar shall have passed the examinations for the Degree of Bachelor of Divinity.

2. *Muir Bursaries in Mathematics*.—Two in number, of which the Junior Bursary shall be tenable for two years, and the Senior Bursary for one year, the former being of half the annual value of the latter. The appointment shall be determined by the proficiency shown by the candidates in the earlier part of their Mathematical course, and the successful candidates shall prosecute the study of the Higher Mathematics during their tenure of the Bursaries. No candidate shall be allowed to hold both Bursaries at the same time. Should the Junior Bursary be resigned by the Bursar at the end of his first year of tenure, the Senate may make an appointment for the remainder of the period.

3. *Muir Bursaries in Civil Engineering and Mechanics*.—Two in number, and of equal value. The appointments shall be determined by the proficiency shown by the candidates in the earlier part of their Engineering course. The period of tenure for each Bursary shall be the session of attendance on the Senior Class of Civil Engineering and Mechanics (Course IV.). Should a vacancy occur by reason of non-attendance of a selected candidate, the Senate may

make an appointment for the remainder of the period. No candidate shall be allowed to hold both Bursaries.

4. The Senate reserve the right to withhold the Bursary in any case in which a satisfactory standard has not been attained by any of the competitors.

5. Arrangements for carrying out these rules and regulations shall from time to time be made by the Senate, and notice thereof shall be published in the University Calendar.

Arrangements for Session 1890-91.—*Muir Bursaries in Mathematics.*—The appointment to the Junior Bursary, tenable during sessions 1891-92, 1892-93, shall be determined by the results of the written examinations passed in the course of the session 1890-91 by the public students of the Upper Junior Class of Mathematics. The successful candidate shall, during session 1891-92, attend the Senior, and during session 1892-93 the Upper Senior Mathematical Class. The appointment to the Senior Bursary, tenable during session 1891-92, shall be determined by the results of the written examinations passed in the course of the session 1890-91 by the public students of the Senior Mathematical Class. The successful candidate shall, during session 1891-92, attend the Upper Senior Mathematical Class.

Muir Bursaries in Civil Engineering and Mechanics.—Candidates for the Bursaries tenable during session 1891-92 must be (a) students attending during session 1890-91 the Class of Surveying and Levelling (Course II.), who are also attending or have in a previous session attended the Senior Class of Engineering Drawing and Calculations (Office and Field Work), or (b) students attending during session 1890-91 the Senior Class of Engineering Drawing and Calculations, who are also attending Engineering Course II., or have in a previous session attended the Junior Class of Civil Engineering and Mechanics. The appointment shall be made by consideration of merit shown during attendance on, and by examination in the subjects of those classes, together with the following subjects in preparation for the Senior Class of Civil Engineering and Mechanics (Course IV.), viz.:—Differential and Integral Calculus in cases of powers of a variable when the index of the power is a whole numeric; and in cases of trigonometrical functions ($\sin \theta$, $\cos \theta$, $\tan \theta$, etc.). Also—Principles of curvature. Also—Relation between Neperian logarithms, common logarithms, and logarithms in general; and Specification of common logarithms. In the examination for one of these Bursaries proficiency in the subjects of the Class of Surveying and Levelling (Course II.), and for the other of them proficiency in the subjects of the Senior Class of Engineering Drawing and Calculations, shall have the greater influence. The successful candidates shall, during session 1891-92, attend the Senior Class of Civil Engineering and Mechanics (Course IV.).

Bursars in Mathematics.—Junior Bursar for session 1890-91,

Robert G. Nisbet, 1889 ; for sessions 1890-91, and 1891-92, Charles S. Dougall, 1890 ; Senior Bursar for session 1890-91, Daniel Lamont, 1890.

Bursars in Civil Engineering and Mechanics for Session 1890-91, Robert M. Ferrier, 1890 ; Alexander G. G. Guthrie, 1890.

Bursar in Theology.—William Scott, M.A., 1888.

WILLIAM MUIR DIVINITY BURSARIES (*Theology*).—Established in 1886 by the Governors of the Glasgow General Educational Endowments Board, under Section 35 of their Scheme. The Bursaries are two in number, each of £25 annual value. Candidates must have passed the examination of the Synodical Board for entrance to the Divinity Hall of the University, and must lodge applications with Dr. F. L. Robertson, Hutcheson Buildings, Ingram Street, on or before the 5th day of November. The Bursaries are awarded in accordance with the results of the competition for Bursaries in Theology, and are tenable for two years.

Bursars—*William Sawers, 1888 ; William Newlands, 1889.

NOTMAN BURSARY (*Theology*).—By deed of Settlement, dated 15th August, 1876, Mrs. Margaret Adam Notman or Napier, of Hillhead, Glasgow, widow of Mr. William Napier, directed her executors to pay over to the Principal and Professors of the Glasgow College, the sum of £500 sterling for the purpose of founding a Bursary in the College, to be called the Notman Bursary, in memory of her father and brother. The Bursar to be a student of Divinity, who shall appear in public examination to be best qualified and deserving. Present value, £17 per annum.

Bursar—*James Mackinnon, 1887.

ORR-EWING DUMBARTONSHIRE BURSARIES (*Arts*).—Sir Archibald Orr-Ewing, Bart., of Ballikilrain, M.P., by Bond and Foundation dated 19th September, 1877, bound and obliged himself, his heirs, etc., to pay to the University of Glasgow, and to the Senatus Academicus thereof, as trustees, the sum of £1,600 sterling in seven annual instalments, payable at Martinmas in each of the years following, viz. :—In 1878, £100 ; 1879, £200 ; 1880, £300 ; 1881, £400 ; 1882, £300 ; 1883, £200 ; 1884, £100—to be held and applied for providing four Bursaries of £25 per annum each, tenable for four years, to be competed for in each of the years 1878, 1879, 1880, and 1881. By a letter to the Senate dated 5th February, 1883, he intimated his intention to give yearly four Bursaries of £25 each during his lifetime. The Bursaries are open only to candidates who have attended a Public Parochial, being an ordinary Board School or Schools, in one or more of the landward Parishes of Dumbartonshire, or of the Parishes of Buchanan, Drymen, Balfron, Killearn, Fintry, Strathblane, Baldernock, and Milngavie, being Parishes in the Presbytery of Dumbarton, for the full period of four years

* Vacant through lapse of time.

immediately preceding the competitive examination for the said Bursaries, who shall at the date of such examination be under the age of 17 years complete, and who shall express their intention of forthwith entering the University of Glasgow and proceeding with the studies required for obtaining the Degree of Master of Arts from the said University, and shall actually enter the said University accordingly. Each of the said Bursaries shall, as a rule, be tenable for four years, but on condition that each Bursar shall, during or prior to his fourth session of attendance at the said University, have passed two out of the three departmental examinations for the said Degree of Masters of Arts, wherein if he fail he shall forfeit all right to the said fourth year's payment of £25. Candidates will be examined in at least three of the following subjects, viz. :—(1) English Language and Literature, (2) Mathematics, (3) Latin, (4) Greek, of which three subjects English Language and Literature must always be one. Should the examiners not consider the candidates to have passed an examination of sufficient value, or should a sufficient number of candidates not come forward, the Senatus shall offer in subsequent years additional Bursaries of £25 each. In the event of a Bursary becoming vacant otherwise than by lapse of time, the Senatus are to apply the funds thereby left at their disposal for the benefit of Divinity students belonging to Dumbartonshire.

Bursars—*John R. Blackwood, 1886; *Malcolm M'Coll, 1886; James A. Bain, 1887; James Davidson, 1887; Thomas M. Inglis, 1887; George Stirling, 1887; Peter D. Thomson, 1887; John G. Crammer, 1888; James Allan, 1888; Charles Cairnie, 1888; Morris Frater, 1888; William L. Bain, 1889; John Chalmers, 1889; James R. Drever, 1889; James Taylor, 1889. (Five vacancies.)

JAMES PATERSON BURSARY (Arts).—Founded in 1885 in commemoration of the completion, in 1879, of the fiftieth year of the existence of Adelaide Place Baptist Church, Glasgow, and of the Pastorate thereof of Dr. James Paterson during the same period. The sum subscribed for the purpose, amounting with interest to £619, was assigned and conveyed to the Senate in trust to be applied in all time coming to provide a Bursary in the Faculty of Arts to be called the James Paterson Bursary. The Bursary is tenable for four years, and is open to competition to any student of the first year in Arts who is a member of a Baptist Church, and who is entering upon his studies with a view to the ministry in the Baptist denomination. The Bursar during his tenure of the Bursary must be a member of Adelaide Place Baptist Church or of some other Baptist Church in Glasgow or neighbourhood. The Bursar must graduate in Arts, and before payment of the second moiety of the last year's Bursary must produce evidence that he has taken the

* Vacant through lapse of time.

Degree, or that he has obtained all the certificates necessary for graduation. On the Bursaries falling vacant otherwise than by lapse of time, the Senate may appoint for the remainder of the term, or for the full period after competition. Before payment of the second moiety in each year the Bursar must produce a certificate of fitness for the ministry from a Committee of Adelaide Place Baptist Church, from the Baptist Union of Scotland, or some recognized Educational Institution of the Baptist body.

Bursar—*Peter T. Thomson, 1886.

PATRICK BURSARIES (*Arts*).—Two in number, founded in 1860, by Mr. William Patrick, of Roughwood, W.S., the one consisting of the free annual proceeds of a sum of £2,000 of consolidated stock of the Glasgow and South-Western Railway, the other of the free annual proceeds of £1,000 of the same stock. They are tenable for two years, but may be continued for other two. Candidates must have gone through a course of education at some one of the Public Schools in the county of Renfrew, where a regular course of Classical Study is pursued, and must be in circumstances to render it desirable that they should have assistance in prosecuting their studies at the University. The Rector or Head Teacher of such Public School to grant a certificate to any number, not exceeding four of his best scholars, who shall be entitled to present themselves to the Principal and Professors as candidates for the Bursaries. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office).

The examination is in Latin, Greek, Elementary Mathematics, and English.

Bursars—*David S. Jerdan (£40), 1888 ; James S. Dunlop (£80), 1889.

GLASGOW PERTSHIRE SOCIETY'S BURSARY (*Arts*).—Founded by the Glasgow Perthshire Society in 1873. Value, £25, and tenable for three years. Open to competition to natives and sons of natives of the county of Perth, and also to sons of persons who are *bona fide* residents in that county, and have resided in it for not less than three years at the time of the competition. Candidates must be entering on their first year of attendance as students in the University of Glasgow, and the holder of the Bursary will be required to complete attendance on at least two of the classes in the curriculum of Arts in each session. Names of candidates to be sent to Mr. George Gray, writer, County Buildings, Glasgow, Secretary of the Society, not later than the first October preceding the competition.

Bursar—James M'Queen, 1888.

POLLOCK BURSARIES (*Arts*).—Founded in 1878, in terms of the Trust Disposition and Settlement of the Rev. Alex. Pollock, senior minister of the Free South Church, Paisley, who bequeathed £3,000,

* Vacant through lapse of time.

free of legacy duty, for that purpose. The Bursaries are designed to assist young men entering the University of Glasgow, whose circumstances are such as to render it desirable that they should have assistance in prosecuting their studies. The patrons are the Principal and Professors in the Faculty of Arts. Each candidate must lodge along with his application a letter from the Rector, Headmaster, or Classical Teacher of one of the Public Schools or Public Academies within the parliamentary boundaries of the burgh of Paisley, where a regular course of Classical study is pursued, certifying that he has completed his course of education at such school or academy. Certificate forms may be obtained from the Assistant Clerk (Matriculation Office). Should no such qualified candidates present themselves, or should the otherwise qualified candidates fail to reach a satisfactory standard in the Bursary Examination, the Bursary or Bursaries vacant for the time being shall be open to all the candidates in the ordinary Bursary Competition. The Bursaries are three in number, and are tenable for three years, during which period the Bursars must be students in the Faculty of Arts. The second moiety of the third year's Bursar shall not be paid until the Bursar shall have obtained at least two of the Departmental Certificates for the Degree of Master of Arts.

Bursars—*Thomas M. Duncan, 1887; Hamilton P. Paterson, 1888; Robert H. Coats, 1889.

RAINY BURSARIES (*Medicine*).—In 1872, Dr. Harry Rainy, Emeritus Professor of Medical Jurisprudence in this University, made over to the Senate the sum of £1,000 for the institution of two Bursaries in the Medical Faculty, and a further sum of £500 to be invested as a supplementary or augmentation fund. The interest of the Bursary Fund is to be divided annually between the two Bursars; and the interest of the supplementary fund is to be employed towards defraying the expenses of administration, and bringing up, when necessary, the annual salaries of the Bursars to £20 each, and increasing the supplementary fund. Should this fund accumulate to £1,000, one half of it is then to be added to the Bursary fund, the interest of which shall be divided as before between the two Bursars. If by this process of augmentation, which is to be repeated as often as the supplementary fund amounts to £1,000, the Bursary fund shall at length yield £60 per annum to each Bursar, the Senate may continue the same process, or constitute additional Bursaries on the principle explained above, the original Bursaries remaining of the value to which they have been raised by augmentation. The augmentation fund is not at any time to be reduced below £500.

One Bursar shall be elected annually after competitive examination on the subjects of Anatomy, Chemistry, Botany, Physiology,

* Vacant through lapse of time.

and Zoology. The competition is to be open to all students who have completed two years of the regular Medical curriculum at the University of Glasgow, and who are about to commence their third winter session ; and the examination is to take place in the month of October.

The successful candidate may hold his Bursary for two years, namely, during his third and fourth years of study in the University of Glasgow. A vacancy occasioned by death, irregular attendance, or misconduct, is not to be filled up till the usual term at which the competition for that Bursary would have fallen due, and accumulations from this source are to be added to the supplementary fund.

In 1890 the competition for one of these Bursaries will be held on 6th and 7th October. Candidates are required to give in their names (with Certificates) to the Assistant Clerk (Matriculation Office), on or before the 1st October.

Bursars—*Sholto D. Thomson, 1888 ; Robert Bishop, 1889.

RAMSAY WALKER BURSARIES (*Arts*).—Two in number, founded in 1879, under the Trust Disposition and Settlement of Miss Ramsay Walker, Crosshill, who bequeathed £700, reduced by legacy duty to £630, for educating two students with a view to the ministry of the Established Church of Scotland. Preference to kindred of the founder, whom failing, to students of the name of Walker, whom failing, to natives of Glasgow, whom failing, the Bursaries will be thrown open to public competition. Candidates must be qualified by their previous education for entering the University. Tenable for four years.

Bursars—*Thomas Cook, 1886 ; Harry S. Reid, 1888.

ROSS BURSARY (*Arts*).—The Bursary was founded in 1659 by Captain Wm. Ross, of Rosseyle. It is tenable for four years, and the appointment is vested in the Earl of Glasgow. Value, £4 3s. 4d. per annum.

Bursar—William Leith, 1887.

JOHN ROSS, JUNIOR, BURSARY (*Theology*).—Founded in 1880 by Mrs. Ross, widow of Mr. John Ross, junior, merchant in Glasgow, in memory of her husband. Patrons—The Senate of the University. The Bursary Fund consists of the capital sum of £1,000, set aside by Mrs. Ross for that purpose. The Bursary is tenable for three years by a student of Divinity in the regular course of study for the degree of Bachelor of Divinity with a view of becoming a clergyman of the Established Church of Scotland. Candidates must be entering on the first session of their study in Theology in the University, and the award shall be determined by the result of the annual competitive examination for Bursaries in Theology. In cases of equality in the competition there is a preference to the student who may be

* Vacant through lapse of time.

thought to stand most in need of help to carry on his theological studies, or to one who is a native of Ayrshire. The second moiety of the third's year's Bursar shall not be paid to any Bursar unless and until he shall have passed all the examinations required for the degree of B.D. In the case of a vacancy occurring otherwise than by lapse of time, the Senate may appoint, with or without examination, a student of the same standing as the previous Bursar.

Bursar—*James B. Wood, M.A., 1887.

SANDERS BURSARY.—(See Boyd and Sanders Bursary, p. 171).

SCOTT BURSARIES (*Arts*).—Founded in 1874, along with the Scott Scholarship, on the occasion of the centenary of the birth of Sir Walter Scott; the Committee having resolved to employ the fund, raised by public subscription, which amounts to £3,500, "for the benefit of distinguished University students." The fund is administered by trustees, two of whom are elected by the Senatus, two by the Merchants' House, one by the Faculty of Physicians and Surgeons, one by the Faculty of Procurators, and one being the Council's Assessor in the University Court, *ex-officio*. The Bursaries are now three in number, each of the annual value of £25, and tenable for four years. They are open to free competition, under the same regulations as the competition Bursaries in the University. (One vacancy.)

Bursars—Andrew B. Nielson, 1888; Archibald C. McGilchrist, 1889.

SHEARER BURSARIES (*Any Faculty*).—Founded in the year 1887, by Archibald Shearer of Boag, who resided in Beith. By Deed of Mortification executed by Mr. Shearer, dated 29th April, 1887, he conveyed his lands of Boag, in the parish of Kilbirnie, to trustees for the foundation and endowment of three Bursaries for the advancement of the higher education of the young men of his native parish of Dalry in the county of Ayr. The Deed provides that the Bursaries shall be open to applicants between the ages of fourteen and twenty-four, who are the sons of parents or of a surviving parent *bona fide* resident for a period of not less than two years, immediately preceding the date of application in the parish of Dalry, or to applicants who, for a period of not less than the last two years of their school curriculum, have received their education in the schools within the said parish, to enable the Bursars to pursue their education as students at the University, in one or other of the Faculties. Students who have enjoyed a Bursary during their Arts course are eligible for a second Bursary in another Faculty. Applicants to undergo such examination as the trustees may from time to time appoint. Each Bursary to be one-third of free income from the lands of Boag, but not exceeding

* Vacant through lapse of time.

the annual sum of thirty pounds, and to be tenable for three years. Further information will be afforded by the Agents of the Trustees, Messrs. J. & J. M'Cosh, writers, Dalry.

SMITH BURSARIES (*Any Faculty*).—Two in number, founded in 1849 by Dr. John Smith, of Cruthersland; not restricted to any particular description of students. Patrons—The Directors of the Incorporated Company of Stationers. Sons of members of the Company preferred; then sons of persons connected with any of the trades included in their charter, whom failing, such other students as may be approved of by the patrons. Value, £9 per annum each. Tenable for one or more years at the option of the patrons. Applications to be made to Mr. R. Brodie, 77 St. Vincent Street, Glasgow.

Bursar—J. Russell Aitken, 1887; C. M. Burnside, 1888.

STEWART BURSARIES (*Arts*).—These Bursaries, three in number, founded in 1809 by the Rev. James Stewart, are in the gift of the Senate. They commence with the Humanity or the Greek Class, and may be held during the Gown Course. Value, £15 per annum each. The names Stewart and Simpson are preferred. In case of a vacancy, a student of the same standing is appointed.

Bursars—*George D. Brown, 1889 (1886); David M. Stewart, 1887; Frederick R. Stewart, 1889 (1888).

GLASGOW STIRLINGSHERE AND SONS OF THE ROCK SOCIETY'S BURSARY (*Arts*).—Founded in 1876 by the Glasgow Stirlingshire and Sons of the Rock Society. Value, £25 per annum, and tenable for four years. The Bursary is open to competition to "all students who have been born and educated in the county of Stirling." Candidates must be entering on their first session of attendance in the Arts Classes. Secretary of the Society, Mr. Arthur Forbes, writer, 146 Buchanan Street, Glasgow.

Bursar—*Ebenezer B. H. Macpherson, 1885.

STRUTHERS BURSARY (*Theology*).—In 1624, the Rev. William Struthers founded two Bursaries for students in Divinity. Value, £6 13s. 4d. per annum each. By ordinance of the Universities Commissioners, of date 17th May, 1862, these Bursaries were conjoined into one, tenable for three years; the holder to be M.A. and a student of Divinity. All other restrictions were abolished. The right of nomination belongs to the Magistrates and Town Council of Glasgow.

Bursar—George R. Maclellan, 1888.

* Vacant through lapse of time.

TAYLOR BURSARIES (*Any Faculty*).—Two in number, founded by Mr. James Taylor, writer in Glasgow, who by Trust Disposition and Settlement, of date 30th June, 1857, bequeathed to the University the sum of £800 for Bursaries. After Mr. Taylor's death, the trustees found that the estate was not sufficient to pay the various legacies in full. They paid over to the University in January, 1868, the sum of £560, and in September, 1878, a further and final dividend of £80, making in all £640, the free proceeds of which are applied to the payment of the two Bursars. The Senate are Patrons. Preference to the names Tayler or Taylor, Ronald, Dunlop, Henderson, and M'Arthur.

Bursars—John Taylor, 1888 ; John G. Ronald, 1889.

JAMES THOMSON PHILOSOPHICAL ENTRANCE BURSARY (*Arts, Phil.*).—Founded by subscription in 1878 in memory of James Thomson, M.A., a distinguished student of this University, who died in 1876, before the close of his theological curriculum. The Bursary consists of the proceeds of a sum of about £300, and is tenable for two years. It is awarded biennially for the best examination in (*a*) Mental Philosophy and (*b*) English Literature alternately, the candidate being at liberty to offer a special subject. The examination is open to all students of the first and second year who have not already attended any Class in the Philosophical Department, and who have not attended a session in any other Scottish University. The Bursary is payable in four instalments, but the last instalment will not be paid till the Bursar has passed the Departmental Examination in Classics for the M.A. Degree in Glasgow University. The subjects of Examination in Mental Philosophy are the same as for the John Ferguson Jaffrey Bursary in Mental Philosophy.

The next examination will be held in November, 1890, the subject of examination being English Literature.

WALKINSHAW YOUNG BURSARY (*Law*).—Founded in 1878 by Major Young, Dunmore, Kirn, who bequeathed to the University a sum of £500, free of legacy duty, for promoting any useful branch of Education which the Principal and Professors may think proper.

The following regulations have been adopted :—

1. The Bursary shall be tenable for two years, during which the holder shall give regular attendance as a public student in the Faculty of Law in the University, to the satisfaction of the Senate.

2. All persons who within two years previous to the time when an appointment to the Bursary is made, have at an examination in Arts for the Degree of B.L. passed in not fewer than two Arts subjects, or have passed a Departmental Examination for the Degree of M.A., shall be eligible as candidates, and the Senate shall appoint that one among the candidates who in their opinion is the most distinguished. A student who passes a qualifying Examination in the November of the session in which an appointment is made, shall

be held eligible within this rule, but one who has passed an examination in the November two years preceding such an appointment, and has not passed any subsequent qualifying examination, shall not be eligible.

3. The Bursary shall not be tenable along with any other Bursary or Scholarship in the University.

The next appointment to this Bursary will be made in December, 1890. Applications to be sent in to the Clerk of Senate on 1st December.

Bursar—*William Hutchison, M.A., 1888.

WALTON BURSARY (*Medicine*).—This Bursary was founded in 1763 by Dr. William Walton, Huntingdon, for a student in Medicine. The Earl of Sandwich has the right of appointing to the Bursary one of two Students nominated by the Senate. Preference is given to "Students of the English Nation." The Bursary may be held for four years. Value about £36 per annum.

Bursar—Arthur H. Browne, 1888.

ANDREW WEIR BURSARY (*Medicine*).—Founded in 1884, in terms of a Bequest by Mrs. Janet Maxwell or Weir, relict of Andrew Weir, feuar in Paisley. Mrs. Weir bequeathed the sum of £500 to the University, and directed the annual income of the legacy to be devoted to maintaining a Bursary in connection with the Medical School, in such a manner as the Senate may appoint. The Bursary is in memory of a son of the founder, Andrew Weir, a medical student of Glasgow University, who held subsequently the post of Resident Physician in the Paisley Infirmary, and in the discharge of his duties there contracted a fever, of which he died. The Bursary is awarded annually at the beginning of the Winter Session in accordance with the results of the second and third professional examinations, account being taken of the marks gained by all students who have passed both of these examinations within a period not exceeding thirteen months, reckoning backward from the date of the professional examinations in October of each year. During the tenure of this Bursary, which may be held along with another Bursary, the holder shall be bound to give regular attendance on the classes of the medical curriculum in the University.

Bursar—James Hill, 1889.

WILLIAMS BURSARIES (*Arts and Theology*).—The Rev. Dr. Williams, London, in the year 1711, bequeathed to certain individuals in London, in trust, an estate, to found Bursaries for educating natives of South Britain at the University of Glasgow. The founder, with a particular view to support the cause of Protestant dissent in England, directs that every Bursar on this foundation shall promise, in writing, to become a preacher among the dissent-

* Vacant through lapse of time.

ing ministers of that country. The Bursaries are tenable for three years, but renewable for another year on application, on the understanding that the student has graduated in Arts, and is about to enter the Divinity Hall. Value, £40 per annum each. The right of presentation is vested in the founder's trustees. Secretary to the Trust—Mr. Francis H. Jones, 16 Grafton Street, E., London, W.C. The state of the funds of this foundation will not admit of more than one appointment being made in session 1890-91.

Bursar—*John S. Stanyon, 1887 ; William Samuel, 1888 ; John Vaughan, 1888 ; Herbert Stowell, 1889.

WILSONE BURSARY (*Theology*).—Two Bursaries, value £6 13s. 4d. per annum each, were founded by Mr. Michael Wilsons, in 1640. Patrons—The City Magistrates and Council.

By ordinance of the Universities Commissioners, of date 17th May, 1862, confirmed by Her Majesty in Council, these Bursaries were conjoined into one, tenable for three years ; the holder to be M.A. in regular attendance as a student of Theology. Restrictions as to kindred, etc., abolished.

Bursar—John Boyle, M.A., 1889.

* Vacant through lapse of time.

MAJOR YOUNG'S FUND BURSARIES (*Law*).—Two in number, founded in 1890, by the Trustees of the late Major Young, founder of the Walkinshaw Young Bursary. The amount of the Bursary Fund is about £1,280. and each of the Bursars receives one-half of the free annual income thereof. In accordance with Major Young's desire, the Bursaries are open only to applicants whose pecuniary circumstances are such as in the judgment of the Senate render it desirable that they should have assistance in prosecuting their studies at the University, a preference being given, *ceteris paribus*, to natives of Argyllshire or Renfrewshire. One of the Bursaries is tenable for six years, and is awarded by competitive examination to a student of the first year who intends to study for a Degree in Law. The Bursar is required during his tenure of the Bursary to attend such classes, and to pass such Examinations for a Degree in Law, as shall be held by the Senate to correspond to the successive stages of his course ; and he must attend a class or classes in the Faculty of Law during at least the last two years of his tenure of the Bursary. The other Bursary is tenable for two years, and is awarded by competitive Examination upon subjects prescribed by the Senate. Candidates must have expressed their intention of attending the Classes of Scots Law and Conveyancing, and the Bursar must attend these classes in separate sessions during his tenure of the Bursary. Either of these Bursaries may be held with any other Bursary, Scholarship, or Prize in the University, but both shall not be held together by one Bursar. The subjects of Examinations are those prescribed for the General Bursary competition. Applications to be lodged with the Assistant Clerk (Matriculation Office), on or before Tuesday, 21st October, 1890.

2. EXHIBITIONS, FELLOWSHIPS, AND SCHOLARSHIPS

ALPHABETICALLY ARRANGED.

FOUNDATION.	No. of Scholarships, &c.	TENABLE BY	Approximate Annual Value of each.
Black Theological, -	1	Masters of Arts of Scot. Univ.,	£140
Breadalbane, - - -	2	Do. Glas. Univ.,	£50
Clark, George A., - -	4	Do. do.	£175
Clark, John (Mile-end),	8	Arts Students at close of Curric.,	£50
Clydebank, - - - -	1	Students of Naval Architecture,	£10
Cunninghame, - - -	2	Bachelors of Laws of Glas. Univ.,	£32
Alexander Donaldson,	1	Candidates for B.Sc. (Chemistry),	£38
Robert Donaldson, -	2	Bachelors of Science of Gl. Univ.,	£62
Eglinton, - - - - -	2	Masters of Arts of do.	£100
Euing, William, - -	3	Do. do.	£80
Ferguson, - - - - -	6	Masters of Arts of Scot. Univ.,	£80
Foulis Memorial, - -	1	Medical Graduates or Licentiates,	£50
Lloyd's Register, - -	1	Students of Naval Architecture,	£50
Luke, - - - - -	1	Masters of Arts of Glas. Univ.,	£110
Mackay Smith, - - -	2	Students in Nat. Phil. and Chem.,	£48
Metcalfe, - - - - -	1	Masters of Arts of Glas. Univ.,	£100
Sandford, - - - - -	1	Greek Students, do.	£20
Scott, - - - - -	1	Masters of Arts of do.	£80
Shaw Philosophical, -	1	Do. Scot. Univ.,	£160
Snell (at Oxford), - -	5	Masters of Arts, etc., Glas. Univ.	£80
Thomson Experimental	3	Students of Natural Philosophy,	£20

N.B.—In cases in which a Scholarship or Fellowship falls vacant otherwise than by lapse of time, the Senate may, except where it is inconsistent with the deed of foundation, hold a competition, and make an appointment for the remainder of the period for which such Fellowship or Scholarship may be held. At the next ordinary competition no student shall be excluded from the competition by reason of his having previously been appointed to fill a vacancy for less than the full period; but in no case shall any student hold such Scholarship or Fellowship for longer than the full period fixed in the regulations applicable to such foundation.

BLACK THEOLOGICAL FELLOWSHIP.—This fellowship, of the annual value of £140 or thereby, was instituted under the Will of the late Mrs. Janet Black (who died in 1876) in memory of her husband, the Rev. William Black, D.D., minister of the Barony Parish of Glasgow. Candidates must be members of the Established Church of Scotland.

The following regulations have been adopted by the Senate with the sanction of the University Court :—

1. The Black Theological Fellowship shall be tenable for two years.

2. It shall be awarded by competition open to Masters of Arts from any of the Universities of Scotland who shall complete the ordinary curriculum of Theological study in the University of

Glasgow in the year in which the examination is held, or who shall have completed that curriculum in any of the three preceding years.

3. At the competition in November, 1885, and thereafter in November at intervals of four years (November, 1893), the examination shall be in Hebrew (with one cognate language), New Testament Exegesis, and Apologetics ; and at the competition in April, 1887, and thereafter in April at intervals of four years (April, 1891), the examination shall be in Divinity (Biblical and Systematic Theology), Church History, and Biblical Criticism.

4. The Fellowship shall be awarded by the Theological Faculty only when the examining Professors shall report that the Candidate is of sufficient merit.

5. The holder of the Fellowship shall, during the tenure of it, perform such duties—whether in the form of giving a short course of lectures, or of undertaking tutorial work, or otherwise—within the University, as may be assigned to him by the Faculty of Theology with the sanction of the Senate.

6. No candidate who has gained the Fellowship at one examination shall be at liberty to compete for it a second time.

7. The Fellowship shall not be held in conjunction with any other Theological Fellowship or Scholarship falling to be awarded at the same time, or subsequently during its tenure.

The eighth competition shall take place in April, 1891. In addition to the subjects prescribed for the second department of the examination for the degree of B.D., the examination will extend to the following :—*Divinity* : Doctrine of the Image of God in Man ; Biblical Theology—the Epistle to the Hebrews. *Church History* : Erasmus ; His attitude and influence in the Reformation Movement. *Biblical Criticism* : Introduction to, and Exegesis of the Epistle to the Hebrews.

Present Fellow.—Duncan B. Macdonald, B.D., *November*, 1889.

BREADALBANE SCHOLARSHIPS.—The second Marquis of Breadalbane, an alumnus, and afterwards Rector of the University, gave from the first year of his Rectorship (1840-41), and during his lifetime, the sum of £100 annually, which was for some years distributed in prizes among certain classes, and afterwards appropriated to the establishment of two Scholarships, the one in Mathematical and Physical Science, and the other in Mechanical Philosophy, Chemistry, and those branches of Natural History that are connected with the Arts and Manufactures.

The Marquis died in 1862, and his Deed of Settlement made provision for the “annual payment, in all time coming, to the University of Glasgow, of the sum of £100, to be paid yearly to deserving students in this college, as Scholarships or Bursaries, to be called the ‘Breadalbane Scholarships,’ in such manner as shall be fixed by the Senatus Academicus of the said University.”

The following regulations have been approved by the Senate :—

The number of Scholarships shall be two, of £50 each per annum, for the encouragement of pure and applied Science.

The scholars shall be chosen, after competitive examination in Mathematics and Natural Philosophy, from among candidates who shall have taken the Degree of Master of Arts, or the Degree of Bachelor of Science in the Department of Engineering Science, at the University of Glasgow, within a period of not more than three years preceding the examination; provided always that students graduating at the supplementary graduation in November of any year, shall, for all purposes, be held to have graduated at the ordinary graduation in May immediately preceding.

Each scholar shall pursue such course of scientific study during the tenure of his Scholarship as the Senate shall in each case prescribe, and shall hold his Scholarship for three years, provided that at the end of the 1st and 2nd years he give the Senate such evidence, by examination or otherwise, as the Senate shall deem sufficient, of having successfully prosecuted the prescribed course of study.

One of these Scholarships will be competed for in November, 1890. Names of candidates to be given in to the Assistant Clerk (Matriculation Office), on 1st October, 1890.

Scholars.—*Laurence Crawford, B.Sc., 1887; Abraham Levine, M.A., 1889.

GEORGE A. CLARK BURSARIES OR SCHOLARSHIPS.—By the Will of the late Mr. George A. Clark, manufacturer, Paisley, a sum of £20,000 was bequeathed in 1872 to this University for the creation of four Bursaries, tenable each for four years. The following are the regulations :—

1. One of these Bursaries shall be competed for annually, at or immediately after the November examination for Degrees in Arts.

2. The Candidates for the Bursaries shall be either Masters of Arts of this University who have taken the Degree of M.A. with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours, in any one of the four departments, enumerated in the ordinances of the Universities Commissioners, No. 14, § VII., and No. 18, § III., viz. :—

(1) Classical Literature.

(2) Mental Philosophy, including Logic, Metaphysics, and Moral Philosophy.

(3) Mathematics, including Pure Mathematics, and Natural Philosophy.

(4) Natural Science, including Botany, Geology, Zoology, and Chemistry.

But no student shall be eligible for the examination after the

* Vacant through lapse of time.

expiration of more than three winter sessions from the time of his completing the course necessary for the M.A. Degree.

3. The successful candidate shall undertake, during his tenure of the Bursary, to give such assistance in the teaching work of the University, and to follow such a course of study in the University, as the Senate may determine.

4. The subjects of examination each year shall be those which constitute the examination for Honours in one of the above-named departments (the department selected each year for examination to be publicly announced). The Senate reserve the right to withhold the Scholarship, should none of the competitors reach the standard of attainment required of graduates in Arts with highest honours.

5. In the event of the examiners reporting in any year that no candidate has done sufficiently well in the subjects of that year to deserve the Scholarship, no appointment shall be made in that year; but it shall be in the power of the Senate to hold an examination for the same Scholarship, and in the same subjects, in the following year, provided that in that case the Scholarship shall be held for three years only and not for four, the surplus revenue being added to the capital of the fund. Should the same thing occur again, it shall be in the power of the Senate to appoint a Scholar for two years only, or for one year only, the examination in each case being in the same subjects as when the Scholarship was first competed for. In the same manner, in the event of a vacancy occurring in the tenure of any of the Scholarships otherwise than by lapse of time, the Senate may make an appointment for the remainder of the term for which the Scholarship might have been held by the student vacating it, and after examination in the same subjects as those for proficiency in which the Scholar was originally appointed; but in no case shall the regular rotation of subjects as above provided for be disturbed. In the competition for scholarships to be held for less than four years, no student shall be admitted to examination who would not be eligible, as above arranged, for a Scholarship to be held for four years. In the event of a candidate being appointed to a vacancy to be filled for less than four years, and being still eligible, under the usual regulations as above, to compete for the said Scholarship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Scholarship, but in no case shall any student be permitted to hold the Scholarship for more than four years in all.

6. It shall not be competent for the holders of these Bursaries to hold any other Bursary or Scholarship in this University.

7. It shall be in the power of the Senate to deprive any Bursar of his Bursary, in the event of his not complying, to their satisfaction, with any of the above regulations.

8. The Examiners shall be the same as the Examiners for the Degree of M.A. with Honours in each of the several departments.

One of these Bursaries or Scholarships, of the annual value of about £175, and tenable for four years, will be competed for, subject to the foregoing regulations, in November of the present year; the examination to be in the second of the four departments above enumerated—viz., Mental Philosophy. Candidates are requested to give in their names to the Assistant Clerk (Matriculation Office), not later than 1st October.

Bursars.—*Robert A. Duff, M.A., 1886 (Mental Philosophy); John Dougall, M.A., 1887 (Mathematics); Robert Kennedy, M.A., B.Sc., 1888 (Natural Science); David Smith, M.A. 1889 (Classics).

JOHN CLARK (MILE-END) SCHOLARSHIPS.—By the Deed of Constitution regulating the John Clark Bursaries (see page 175), the Founder, Mr. John Clark, also instituted Scholarships of £50 annual value, open for competition to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University. The Scholarships are to be awarded to the candidates who stand highest at written examinations in the branches of learning appointed by the trustees, and are tenable for four years, subject to the condition that the Scholars give their undivided time and attention to the prosecution of their studies with a view to any of the learned professions, or, on approval of the trustees, any other profession or business they may prefer. The trustees do not appoint any one who already holds a scholarship of greater value. Two Scholarships will be competed for in November, 1890, one in the department of Natural Science and one in the department of Classics. The examination will be on the subjects prescribed for the Degree of M.A. with Honours in the respective departments.

Names of candidates to be given in to the Assistant Clerk (Matriculation Office), on or before the 1st October, and also to Mr. J. B. Kidston, 50 West Regent Street, Glasgow.

Scholars—†Robert Kennedy, M.A., 1886; *Robert M. Wenley, M.A., 1886; *Alexander L. Taylor, M.A., 1886; Arthur D. Millar, 1887; James Gilfillan, 1887; Robert Scrymgeour, 1888; Alexander Holm, 1888.

CLYDEBANK SCHOLARSHIP.—Founded in 1885 by Messrs. James & George Thomson, engineers and shipbuilders, Clydebank. The endowment is in the meantime for six years, but will be made permanent should the experiment be successful. Value, £10 per annum. The Scholarship is to be competed for biennially, at such times as the Senate may appoint, by young men not under 18 years of age, who have been employed at least three years as working apprentices, or in the drawing offices of shipbuilding or engineering

* Vacant through lapse of time.

† Vacant—Mr. Kennedy resigned this Scholarship in 1888 on his appointment to the George A. Clark Scholarship in Natural Science.

works situated in the districts of Clydebank, Yoker, or Dalmuir. The subjects of examination include Plane and Descriptive Geometry, Algebra, Plane Trigonometry, Elementary Dynamics and Hydrostatics. The successful candidate must attend during the two years for which it is tenable the course of lectures and of instruction in ship-drawing and calculations given by the Professor of Naval Architecture. When a vacancy occurs candidates are required to send in their names (with certificates) to the Assistant Clerk (Matriculation Office), on or before 1st October.

Scholar—James Mathieson, 1889.

ANDREW CUNNINGHAME SCHOLARSHIPS.—Mr. Andrew Cunningham, Town Clerk Depute of Glasgow, who died in 1886, bequeathed to the University, free of legacy duty, £5,000, for the purpose of completing the tower, and also £350, the annual revenue of which was to be applied in purchasing a gold medal as a prize in the class of Mathematics. He also bequeathed to the Senate £2,000 for two Bursaries or Scholarships in connection with the Scots Law and Conveyancing Classes. The following regulations were adopted by the Senate on 15th March, 1888:—

1. One-half of the free income of the bequest shall be applied for the purpose of a Scholarship in connection with the class of Scots Law, and the remaining half for the purpose of a Scholarship in connection with the class of Conveyancing.

2. Each Scholarship shall be tenable for two years.

3. On each vacancy the candidate who, in the opinion of the Senate, is the most distinguished Bachelor of Laws of the year, shall be appointed, special consideration being given to eminence in Scots Law and Conveyancing.

4. Students who have been found qualified for the Degree of LL.B. at the spring and winter graduations of the year in which the appointment is made, shall be eligible as candidates.

5. The conditions of holding the Scholarships are that the scholars give such assistance in the work of the classes of Scots Law and Conveyancing respectively as the Professors of these Classes may require, subject to the approval of the Senate.

6. In the event of a vacancy occurring during the tenure of any Scholarship, the Senate may, if they think fit, appoint a Scholar to hold the Scholarship for the unexpired period.

An appointment to the Conveyancing Scholarship will be made in November, 1890.

Scholars.—*David D. Binnie, LL.B., 1888 ; Alexander D. Blacklock, LL.B., 1889.

ALEXANDER DONALDSON SCHOLARSHIP OR BURSARY.—Founded in 1881, by Will of the late Mr. Alexander Donaldson, iron merchant in Glasgow, who bequeathed to the Senatus of Glasgow University

* Vacant through lapse of time.

£1,000, to be administered by them as patrons for the endowment of a Scholarship or Bursary, at their discretion, in connection with the said University.

The following regulations were adopted by the Senate on 1st May, 1884 :—

1. The Scholarship shall be awarded to the candidate who, presenting himself for the first examination for the Degree of B.Sc., held in the month of April, shall stand highest in Chemistry.

2. The Scholarship shall be tenable for two years.

3. The second moiety of the second year's stipend shall be paid only after the Scholar has passed all the examinations for the Degree of B.Sc.

These regulations apply to students proceeding to the Degree of B.Sc. under the new regulations for that Degree.

Scholar—David R. Boyd, 1890.

ROBERT DONALDSON SCHOLARSHIPS.—Founded in 1887 by the trustees of the late Mr. Robert Donaldson, iron merchant, Glasgow, who left £2,000 to the Senate for two Scholarships for such scientific purposes as his trustees should approve. The following tentative scheme has been approved by the trustees :—

1. The income of the fund shall be devoted for two years alternately to Scholarships in Chemistry and Biology.

2. Each Scholarship shall be tenable for two years.

3. Students who have taken the Degree of B.Sc. in Glasgow University shall be eligible.

4. The appointment shall be made by the Senate on a report as to the merits of the candidate or candidates by the Professor of the subject.

5. The scholar appointed shall devote himself for two years in this University, or for one year in this University and the other in such place as the Senate may approve, to research in the subject in which he has obtained the Scholarship. The holder of the Scholarship in Biology shall have the option of selecting Zoology or Botany as the subject of research.

6. The Senate are not bound to make an appointment unless the candidate is in their opinion qualified.

An appointment to the Scholarship in Biology will be made in November, 1890. Candidates are required to give in their names to the Assistant Clerk (Matriculation Office), on or before the 1st October of that year.

Scholar—*J. Morrow Campbell, B.Sc., 1888.

EGLINTON FELLOWSHIPS.—On the death of the Earl of Eglinton, formerly Rector of the University of Glasgow, a committee was formed to collect subscriptions for the purpose of commemorating in a suitable manner his virtues and public services; and, subscriptions

* Vacant through lapse of time.

having been received to the amount of £7,000, it was resolved by the subscribers, in 1862, to set apart £4,500 out of this sum as a Scholarship or Fellowship Fund in the University of Glasgow.

By the Trust Deed of date November 8th, 1865, the net yearly produce of the said sum (after deducting expenses) is to be appropriated to the support of one or more Fellowships, not exceeding three, to be competed for by the alumni of the College of Glasgow, and to be held for a period not exceeding four years, upon the following conditions, viz.: First,—The number of Fellowships, and the period during which the same are to be held, shall from time to time be fixed by the *Senatus Academicus* of the said University. Secondly,—The competition for the Fellowships shall be open only to deserving students who shall have taken the Degree of Master of Arts in that University at the term preceding the competition,* and the Fellowships shall be awarded by the *Senatus Academicus* of the University to those students who have shown themselves in a public competition to have acquired the greatest amount of knowledge and proficiency in the branches of study embraced in the curriculum of Arts, and such branches of Natural Science as the Senate shall, from time to time, require. And, Thirdly,—The Examination for the Fellowships shall be under the direction of the *Senatus Academicus* of the University, who shall fix the subjects of examination, and the relative value of each subject in the competition, and appoint any of their own number, or other fit persons, to be Examinators, and make such regulations with relation to the said Fellowships, and the competition and examination therefor, as from time to time they may think fit.

The following are the regulations of the Eglinton Fellowships:—

1. The number of the Eglinton Fellowships shall be two (of about £100 per annum each), tenable for three years, subject to the approval of the Senate at the end of the first and second year.

2. The competition for the Fellowship shall be open only to deserving students who shall have taken the Degree of Master of Arts in the University of Glasgow, at the term preceding the competition.* In the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

3. One of the Fellowships shall be open to competition in November, 1866, and thereafter triennially (1890); and the other in November, 1867, and thereafter triennially (1891).

4. The successful candidate shall undertake, during his tenure of

* *i.e.*, Either at the ordinary Graduation in May or at the Supplementary Graduation in November.

the Fellowship, to follow such a course of study in the University, or to give such assistance in the teaching work of the University, as the Senate may determine.

5. The Examination for the Eglinton Fellowship to be competed for in November, 1890, and thereafter sexennially, shall be in Classics; and the Examination for the Eglinton Fellowship to be competed for in 1893 and thereafter sexennially, shall be in Mental Philosophy.

The subjects of examination in Classics and Mental Philosophy respectively shall be the same as those for the Degree of Master of Arts with Honours.

6. The subjects of examination for the Eglinton Fellowship to be competed for in November, 1888, and thereafter triennially, shall be the subject of examination for the Degree of Master of Arts with Honours in Mathematics and Natural Philosophy.

7. The Eglinton Fellowship shall not be held along with the Snell Scholarship, or Breadalbane Scholarship, and the holder of the Luke Fellowship or of the Metcalfe Fellowship shall not be admitted to compete for the Eglinton Fellowship.

The next competition will take place in November, 1890, the subject of examination being Classics.

Candidates are required to give in their names to the Assistant Clerk (Matriculation Office) on or before 1st October.

Fellow—*John W. Bryson, 1887; John Brownlee, 1889 (two years).

WILLIAM EUING FELLOWSHIPS.—Founded in 1874 by Mr William Euing, insurance broker, Glasgow, who by his Will bequeathed to the University, along with a library of rare and valuable books, the sum of £6,000 for the endowment of three Fellowships, each of the value of £80 per annum, and tenable for not more than five years. The Fellowships are open only to deserving students who have completed the regular curriculum in Arts, and taken the Degree of M.A. at this University, and are awarded after competition in the subjects of the Arts curriculum. The Fellows are required to reside in Glasgow for at least nine months in the year, and “to open private classes, of limited numbers, for giving instruction to, and aiding students of the University—more especially during the vacation, or such part thereof as may be found expedient—in such studies as may be auxiliary to, or illustrative of, the course of lectures which such students may have attended, or be desirous of attending, and also to carry out the same purpose by a systematic course of private tuition.”

One fellowship is attached to the department of Classics, one to the department of Mathematics and Natural Philosophy, and one to the department of Mental Philosophy, including Logic, Moral Philosophy, and English Literature.

* Vacant through lapse of time.

The Senate have issued the following regulations for the competition of these Fellowships :—

1. In the department of Classics there shall be one Fellowship competed for in November, 1875, and thereafter at intervals of four years (1891), the period for which the Classical Fellowship shall be ordinarily tenable.

2. In the department of Mental Philosophy one Fellowship shall be competed for in November, 1876, and thereafter at intervals of three years (1891), the period for which the Fellowship in the department of Mental Philosophy shall be ordinarily tenable.

3. In the department of Mathematics and Natural Philosophy one Fellowship shall be competed for in November, 1875, and a Fellow appointed for two years; the Mathematical Fellowship becoming vacant in November, 1877, shall be filled up for a period of three years (1892), the period for which the Fellowship in this department shall be ordinarily held.

In the event of a candidate being appointed to a vacancy to be filled for less than four years in the department of Classics, or for less than three years in the department of Mental Philosophy, or of Mathematics and Natural Philosophy, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than four years in all, or three years in all, respectively.

A Fellowship in Classics, tenable for one year, and another in Mathematics, tenable for two years, will be open to competition in November, 1890.

Names of candidates to be given in to the Assistant Clerk (Matriculation Office), on 1st October.

Fellows—*David Smith, M.A., 1887 (Classics); Evan K. Evans M.A., 1888 (Mental Philosophy).

FERGUSON SCHOLARSHIPS.—With a view to the encouragement of the higher learning in Scotland, the trustees of the late Mr. Ferguson, of Cairnbrock, out of his legacy of £50,000 for educational and other purposes, instituted in 1860 six Scholarships, each of the value of £80 per annum, to be held for two years, and to be called "The Ferguson Scholarships."

The examination of candidates for three of these Scholarships will be held in Glasgow, on Wednesday, 1st October next, and following day. One of the Scholarships will be awarded for the greatest proficiency in Classics; one for the greatest proficiency in Mathematics, including Natural Philosophy; and one for the greatest proficiency in Mental Philosophy, including Logic, Metaphysics, and Ethics.

* Vacant—Fellow appointed to another Scholarship.

Subjects for examination—

CLASSICAL SCHOLARSHIP.—*Latin*.—Lucretius, *De Rerum Natura*, Books I., II., III., and V. Virgil, *Eclogues*, *Georgics*, and *Aeneid*, Books I.-VI. Horace, *Odes* and *Epistles*. Cicero, *Epistolae ad Familiares*, Books I.-VI. Tacitus, *Annals*, Books I.-VI. Quintilian, Book X. Translations from Authors not prescribed. Latin Prose Composition.

Greek.—Homer, *Iliad*, Books XVI.-XXIV. Pindar, *Pythian Odes*. Aeschylus, *Prometheus*, *Agamemnon*, *Persae*. Thucydides, Books VI. and VII. Demosthenes, *De Corona*. Plato, *Republic*, Books I.-V. Translations from Authors not prescribed. Greek Prose Composition.

Questions.—(1) On Language, Greek and Latin; (2) On Greek History and Literature, in the 5th and 4th centuries B.C.; (3) On Roman History and Literature, from B.C. 131 to A.D. 68. The Questions will bear chiefly on the books prescribed.

MATHEMATICAL SCHOLARSHIP.—*Mathematics*.—Euclid's Elements. Modern Geometry. Algebra, including Determinants, Finite Differences, and Theory of Equations. Trigonometry, Plane and Spherical. Analytical Geometry, in two and three dimensions. Differential and Integral Calculus, and Differential Equations.

Natural Philosophy.—Abstract Dynamics (commonly called Mechanics), including Kinematics and Statics and Kinetics of Solids and Fluids. Experimental Physics and Applied Mathematics, including all the ordinary subjects treated in Lectures on Natural Philosophy.

PHILOSOPHICAL SCHOLARSHIP.—*Logic*.—Province and History of Logic. Logical Forms of Notions, of Judgments, and of Inferences. Fallacies and their Causes. Evidence. Authority and Historical Proof. Physical Science and its Methods. Recent discussions affecting Logic.

Metaphysics.—Psychology and Ontology. Nature, Origin, and Limits of Man's Knowledge of Self, the Material World, and God. History and Critical Analysis of Ancient and Modern Metaphysical Systems.

Moral Philosophy.—Psychology and Metaphysic of Ethics. Moral Faculty, Motives, and Will. Moral Government of the World and cognate Questions. Applied Ethics, including relations of Ethics to Law and Politics. History and Critical Analysis of Ancient and Modern Ethical Theories.

The competition will be open to all persons who have passed the last of the Examinations required for the Degree of Master of Arts in one of the Universities of Scotland (whether taking the degree at the same time or not) within two years immediately preceding, and who have not already gained one of these Scholarships, or competed more than once previously for any of them.

The Examinations will be conducted in writing, and the Scholarships awarded on the report of the Examiners as to the merit of the Candidates, but the minimum of 600 out of 1,000 marks must be reached in order to entitle to a Scholarship.

The Scholarships, of £80 each per annum, are tenable for two years, subject to fulfilment of the following rule of the trustees :—

“Persons gaining the Scholarships will, during the tenure thereof, be expected to prosecute studies in furtherance of the higher learning; and those who have not graduated shall be required to do so before the last payment is made. Any case of conduct unbecoming a scholar and a gentleman shall incur forfeiture of the Scholarship, of which the trustees shall be sole judges.”

Certificates will be granted to such of the unsuccessful competitors as, in the opinion of the Examiners, shall have taken a distinguished position in the Examination.

Candidates are requested to give in their names, personally or by letter, at the Office of THE FERGUSON BEQUEST FUND, 94 Bath Street, Glasgow, not later than 1st September, 1889, and due intimation will be sent to those enrolled as to the place and hours of Examination.

The following Students of the University of Glasgow have obtained Ferguson Scholarships :—

1868, James Smith, Mathematical; 1869, Archibald B. Cameron, Philosophical; 1870, John Cross, Classical; 1870, James Orr, Philosophical; 1872, Wm. W. Waddell, Classical; 1873, Thomas H. Millar, Mathematical; 1874, William Patrick, Philosophical; 1875, William Y. King, Classical; 1878, John M'A. Dodds, Mathematical; 1878, Thomas B. Kilpatrick, Philosophical; 1882, Robert F. Muirhead, Mathematical; 1883, James A. McCallum, Philosophical; 1886, James Buchanan, Mathematical; 1886, Andrew F. Smith, Philosophical; 1888, Ernest F. Scott, Classical; 1889, Evan Keri Evans, M.A., Philosophical.

Present Holders of the Scholarships.—Ernest F. Scott, M.A., of Glasgow University, Classics, 1888; David B. Mair, M.A., of Edinburgh University, Mathematics, 1888; Thomas E. Sandeman, M.A., of Edinburgh University, Mental Philosophy, 1888; James Cruickshanks Smith, M.A., of Edinburgh University, Classics, 1889; Andrew Munro, M.A., of Aberdeen University, Mathematics, 1889; Evan Keri Evans, M.A., of Glasgow University, Mental Philosophy, 1889.

FOULIS MEMORIAL SCHOLARSHIP.—This Scholarship was founded in 1882 in memory of the late David Foulis, M.D., Glasgow, who had distinguished himself in Pathology and Surgery, and died at

the age of 35 years. It is to be awarded as often as the accumulated income from the invested funds amounts to £50. It is tenable by a graduate or licentiate whose professional education has, to the extent of not less than two years, been received at the University or one of the extra-mural schools of Glasgow; and who shall, in the opinion of the trustees, have manifested a capacity for original work in the department of Pathology. The purpose of the Scholarship is to assist in the prosecution of such work in one of the Medical Schools in or furth of Scotland, approved of by the trustees; and the trustees have power to determine whether it should be awarded by competition or otherwise.

The trustees are the Professor of Practice of Medicine in the University, the President and Visitor of the Faculty of Physicians and Surgeons of Glasgow, and the Pathologists of the Western and Royal Infirmaries.

Scholar—Robert M. Buchanan, M.B., C.M.

LLOYD'S REGISTER SCHOLARSHIP.—The general Committee of Lloyd's Register of British and Foreign Shipping have intimated their intention of establishing a Scholarship of the yearly value of £50, tenable for three years by students of Naval Architecture in this University. They are open to competition to candidates whose age does not exceed 23 years. Each candidate must produce satisfactory evidence that £50 a year would enable him to pursue his studies, and that he would be unable to do so unless this aid were afforded. The subjects of examination are the following:—Euclid, Books I. II. III. IV. VI. and XI.; Algebra, including Quadratic Equations, the three Progressions, and Binomial Theorem; Plane Trigonometry, with use of Logarithms; Elements of Statics, Dynamics, and Hydrostatics; Practical Shipbuilding; Mechanical Problems. A preference will be given to a candidate who possesses a thorough grammatical knowledge of English and of either French or German, although he may be somewhat deficient in the other subjects prescribed.

Scholar—William Sharpe, 1889.

LUKE FELLOWSHIP.—In 1863, the late William Luke, Esq., of Edinburgh, bequeathed to the University of Glasgow the sum of £3,000 sterling, "to perpetuate the memory of his nephew George Rankin Luke" (formerly a highly distinguished student of this University, and afterwards student of Christ Church, Oxford), "in such a manner as his esteemed friend, Professor Nichol, may consider most beneficial." Professor Nichol exercised the discretionary power thus conferred on him by directing that the sum bequeathed should be applied to the founding of a Luke Fellowship. The following are the regulations:—

1. There shall be a single Luke Fellowship (of about £110 per

annum), tenable for three years, subject to the approval of the Senate at the end of the first and second years.

2. The Luke Fellowship shall be awarded on examination on English Literature, and on prescribed periods in History.

3. The successful competitor shall be bound to give such assistance in the teaching of the class of English Literature as the Senate may in each case prescribe.

4. The Luke Fellowship shall be open to competition in November, 1868, and thereafter triennially (1892). The periods of History prescribed for next Examination are (1) The age of Pericles in Greece (Authorities—Thucydides, and the Greek Histories of Thirlwall and Grote); (2) English History from the Union of the Crowns, 1603, to the Revolution of 1688 (Authorities—The Histories of Green, Gardiner, Clarendon, Carlyle's "Cromwell," Forster on the Arrest of the Five Members, &c.).

5. Competitors for the Luke Fellowship must be Masters of Arts of this University, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall, for all purposes, be held to have graduated at the ordinary graduation in the May immediately preceding.

6. The Luke Fellowship shall not be held along with the Snell Scholarship, the Clark Scholarship, the Eglinton Fellowship, or the Euing Fellowship.

7. Students who have competed at one Luke Fellowship Examination shall not be admitted to another, nor shall the holder of the Eglinton Fellowship; but in the event of a candidate's being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the Luke Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

The Luke Fellowship will be open to competition in November, 1892.

Fellow—William Thomson, M.A., 1889.

MACKAY SMITH SCHOLARSHIPS.—One in Natural Philosophy, the other in Chemistry, each of the annual value of £48, and tenable for two years in the Universities of Edinburgh and Glasgow alternately. During sessions 1882-83 and 1883-84 they were held in the University of Edinburgh, and during sessions 1884-85 and 1885-86 in the University of Glasgow. The next examination will be held in this University at the close of session 1892-93. Candidates must have already attended, or must be then attending the class of Natural Philosophy or Chemistry respectively. The examination in Chemistry will be held along with the examinations for the Degree of B.Sc.

(new regulations), and the examination in Natural Philosophy along with the examinations for M.A.

Scholars—John D. Cormack, 1889 (Nat. Phil.); Hugh Galt, 1889 (Chem.).

METCALFE FELLOWSHIP.—Founded by the late Miss Sarah Metcalfe, Glasgow. (See under Metcalfe Bursaries, p. 200.)

The following are the regulations of the Metcalfe Fellowship:—

1. There shall be a Fellowship on the Metcalfe Foundation of the annual value of £100, tenable for three years, to be competed for in November, 1872, and thereafter triennially.

2. Candidates must be Masters of Arts with Honours in the department of Mathematics and Natural Philosophy, of not more than three years' standing, provided always that students graduating at the supplementary graduation in November of any year shall for all purposes be held to have graduated at the ordinary graduation in the May immediately preceding.

3. The examination shall be the examination for the Degree of Master of Arts with Honours in the department of Mathematics and Natural Philosophy.

4. The Fellowship shall be held subject to the condition of pursuing a course of study in such of the following subjects—viz., Higher Mathematics, Practical Astronomy, Civil Engineering, and Chemistry—as the Senate shall in each case prescribe.

5. The Metcalfe Fellowship shall not be held along with the Eglinton Fellowship, the Snell Scholarship, or the Breadalbane Scholarship; and the holder of the Eglinton Fellowship shall not be allowed to compete for the Metcalfe Fellowship; but in the event of a candidate being appointed to a vacancy to be filled for less than three years, and being still eligible, under the usual regulations as above, to compete for the said Fellowship on the occasion of the next regular vacancy, he shall be qualified to compete just as if he had not previously held the Fellowship, but in no case shall any student be permitted to hold the Fellowship for more than three years in all.

The examination should, in ordinary course, have been held in November, 1887, but on account of the state of the Metcalfe Funds no appointment can be made till further notice.

SANDFORD SCHOLARSHIP.—Founded in 1862 (by the investment of a sum of £520, raised by subscription), in memory of Sir Daniel K. Sandford, the eminent Professor of Greek in this University, who died in 1838. It is tenable for two years, and is awarded to the student who, on examination, gives proof of the greatest proficiency in the Greek language. Value about £20 per annum.

The examination of candidates for this Scholarship takes place every alternate year in the month of April (1891), and is open to

all matriculated students (not Masters of Arts), who have attended the Public Greek Classes for not less than two sessions.

The subjects of examination are selected from the following authors:—Homer, 12 books; Herodotus, 4 books; Sophocles, 3 plays; Thucydides, 4 books; Æschylus, 3 plays; Demosthenes, one or more orations; Aristophanes, 3 plays; Xenophon's *Memorabilia*; Pindar; Plato, one or more dialogues.

Candidates are examined on not more than four of the above-mentioned authors (of which Homer is always one)—two in prose and two in verse; and the subjects for each examination are given out by the examiners at the end of the session previous to that in which the examination takes place. Candidates are also examined on Translations from Greek into English, with Criticisms, and Translations, in prose and verse, from English into Greek.

Subjects for April, 1891—Homer, *Odyssey*, xiii-xxiv; Pindar, *Olympian and Pythian Odes*; Plato, *Republic*; Æschylus, *Oresteia*.

Scholar—John E. M'Fadyen, 1889.

SCOTT SCHOLARSHIP—See under head “Scott Bursaries,” p. 209).—This Scholarship, in value £80 per annum, is open for competition to Masters of Arts in the University of Glasgow of not more than three years' standing, having graduated with Honours in Classics or in Mental Philosophy, or to students who, at the time of competition, are presenting themselves for the final examination in the said University for the M.A. Degree with Honours in Classics or in Mental Philosophy. The examination to be in Classics, Mental Philosophy, and English Literature, which may include History. The Scholarship is tenable for two years, and the holder is required to follow such a course of study in the University of Glasgow, or give such assistance in the teaching work of the University as the Senatus Academicus may determine. The Scott Scholarship is not to be held along with any other Scholarship, Fellowship, or Bursary of the University of Glasgow. “The subjects of examination for the said Scholarship shall be, with the addition after-mentioned, Classics, or Mental Philosophy, or both of these, the special subjects being those for the examination for the M.A. degree with Honours in the given department or departments for the year, and in addition to the examination above mentioned the competitors for the said Scholarship shall undergo an examination in English Literature of a higher kind than that required for an ordinary pass in Mental Philosophy.” The Scholarship will be open to competition in November, 1890. The examination will be in Classics and English Literature.

Scholar—*John H. Harley, M.A., 1889.

SHAW PHILOSOPHICAL FELLOWSHIP.—This Fellowship was founded

* Vacant through lapse of time.

by subscription in 1867, in the University of Edinburgh, in memory of Sir J. Shaw, Bart., who was born at Mosshead, in the Parish of Riccarton, and County of Ayr, in 1764, was elected Lord Mayor of London in 1805, and M.P. for the same city in 1806, and after a long and distinguished career, died in London in 1843; and is open to the competition of the Graduates in Arts of any of the Scottish Universities. The Fellowship consists of the free proceeds of the sum of £4,100 mortified to the Senatus Academicus of the University of Edinburgh under the following conditions, namely :—

1. The said Fellowship shall bear the name of “THE SHAW PHILOSOPHICAL FELLOWSHIP,” in memory of the said Sir James Shaw, Baronet.

2. The Patronage of the said Shaw Philosophical Fellowship shall belong to the said Senatus Academicus, and shall be exercised by them, subject to the conditions herein contained, for the encouragement of the study of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy.

3. The Fellowship shall be awarded by competitive examination in the subjects of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy.

4. The Fellowship shall, on each occasion of an appointment thereto, be open to the competition of Graduates in Arts of the Scottish Universities—that is to say, the University of Edinburgh, the University of Glasgow, the University of Aberdeen, and the University of St. Andrews, of not more than five years’ standing at the time of the competition, and of all students of the said Scottish Universities who, although they have not graduated in Arts, shall yet have successfully passed the last of the examinations necessary for such graduation in Arts, within the period of five years before the time of the competition; and the said Senatus of the University of Edinburgh, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the University of Edinburgh, shall have power either to increase or to reduce the number of years of standing as graduates, or as students who have passed all the examinations necessary for graduation, as above fixed, for competitors for the Fellowship.

5. The Fellowship shall be tenable for five years only, but the said Senatus Academicus of the University of Edinburgh shall have power, with consent of the Senates of the other Scottish Universities aforesaid, or of a majority of them, and with the concurrence of the University Court of the said University of Edinburgh, to extend, with reference to all holders of the Fellowship, the term of tenure to any period of years not exceeding ten, if, in the course of time, it shall appear to them desirable to do so, from an increase in the number of foundations of a similar kind in the University of

Edinburgh, or in the other Scottish Universities, or other sufficient reason.

6. The competitive examination for the said Fellowship, shall, except in the case below provided for, be conducted by two Examiners, to be appointed in the manner following—to wit, one of the Examiners shall be appointed by the *Senatus Academicus* of the University of Edinburgh, either from among the members of the said *Senatus* or others, as they may think proper, and the other Examiner shall be appointed by the *Senatus Academicus* of one of the other Scottish Universities in rotation.

7. The said Examiners, so appointed, shall report their opinion of the result of the examination to the *Senatus Academicus* of the University of Edinburgh, who shall, as Patrons of the said Fellowship, appoint thereto the candidate who appears by the report to be best qualified by proficiency in the subjects of Logic, Metaphysics, including Psychology, Moral Philosophy, and the History of Philosophy, provided that, as required by the clause next following, such best qualified candidate shall, in the opinion of both the Examiners, have manifested a sufficiently high degree of proficiency to merit the Fellowship.

9. Each holder of the said Fellowship shall, during his tenure thereof, be entitled to receive the annual proceeds of Four Thousand One Hundred Pounds, and of any addition of the said sum which may hereafter be made thereto, as after-mentioned, after deducting all reasonable expenses, including the payment of remuneration to the Examiners appointed as aforesaid.

12. It shall not be competent for any person to hold the said Fellowship along with any other Fellowship, Scholarship, or Bursary, in any Scottish University, or appropriated to the students of any Scottish University or Universities.

17. It shall be in the power of the *Senatus Academicus* of the University of Edinburgh to require the holder of the Shaw Philosophical Fellowship during the fourth or fifth year of his tenure of it, to deliver in the University of Edinburgh a Course of Lectures, not exceeding four, on any of the subjects for the encouragement of the study of which the Fellowship has been founded; and notice shall be given to the holder of the Fellowship twelve months previously to the time fixed for the delivery of the said Lectures that he is required to deliver them; but the said *Senatus*, with consent of the University Court of the University of Edinburgh, shall have power to alter the number of Lectures, if it shall be found desirable to do so.

Fellow—William Caldwell, M.A. (of Edinburgh University), 1888.

SNELL EXHIBITIONS.—In the year 1677, Mr. John Snell, of Uffeton, in the County of Warwick, a native of Scotland, and formerly student in this University, devised to trustees a considerable

estate near Leamington, in Warwickshire, for educating Scottish students at Oxford.

The Exhibitioners are now elected under a scheme settled in the Court of Chancery in 1872. Under the provisions of this scheme it was then arranged that the number of Exhibitioners should be limited to fourteen, it being lawful to elect three in each year, unless the number on the Foundation should thereby be increased beyond fourteen, in which case not more than two were to be elected, the Exhibition being tenable for five years; but by an agreement of date 2nd April, 1878, under provisions of the same scheme, the following regulations were sanctioned:—

1. The stipend of each Exhibitioner admitted to the foundation after the 31st day of December, 1878, shall be £132.

2. Until the 31st day of December, 1880, the greatest number of Exhibitioners shall be twelve.

3. During the year from the 31st day of December, 1880, to the 31st day of December, 1881, the greatest number of Exhibitioners shall be eleven.

After the 31st day of December, 1881, the greatest number of Exhibitioners shall be ten.

The number of ordinary Exhibitioners it shall be lawful to elect in each year shall be three, unless the number on the foundation for the time being would be thereby increased beyond the greatest number for the time being permitted by this agreement, in which case not more than two shall be elected.

By a subsequent agreement of date 21st January, 1886, the following modifications were made:—

1. The value of the Snell Exhibitions shall be reduced to £80 a year.

2. They shall be held, as heretofore, for five years, but the whole sum of £400 will be paid to each Exhibitioner during the first three years of his tenure in equal annual sums, but a moiety of the last annual payment shall be kept back, if the authorities of Balliol College think fit, until the Exhibitioner shall have taken his Degree.

Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided* as Undergraduate Students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland." "No candidate shall be admitted to examination who shall be a member of the University of Oxford or of more than one year's standing from the day of his matriculation inclusive; and no candidate shall be admitted to examination more than once after he shall have completed his 23rd year; but a candidate otherwise

* By Resolution of date December 13th, 1866, the Senate determined that "Residence" shall, for the purpose of the Snell Trust, be constituted by regular attendance as a public student for the complete Winter Session on not less than two of the classes in the curriculum for the Degree of Arts.

qualified shall not be excluded from examination on the ground that he is a graduate of any Scotch University."

Candidates are expected to inscribe their names in a book kept at the Clerk of Senate's Office for the purpose, not later than 1st December, 1890. The next examination will be held in April, 1891, on the same days and at the same hours as the Examinations for the Degree of M.A. with honours, the English paper being taken on Saturday, 11th April, at 10 A.M.

The subjects of examination are as follows:—

IN LATIN, GREEK, LOGIC, AND MORAL PHILOSOPHY.—The subjects of examination for the Degree of M.A., with Honours.

IN NATURAL PHILOSOPHY AND MATHEMATICS.—The subjects of examination for the Ordinary Degree of M.A., and higher subjects which any candidate may express a wish to be examined in.

Candidates are requested to take notice that they are not required to attend the examination in more than one of the three departments of the examinations, viz.: Classics, Mental Philosophy. Mathematics; that a candidate may be appointed for decided excellence in any one department alone; and if such excellence in some one of the departments be not displayed by three of the candidates, the Senate will either appoint a candidate who has shown sufficient proficiency in several departments, or will abstain from making three appointments. All candidates, however, will be required to write an English Essay on a subject prescribed at the time.

Exhibitioners—John McGilchrist, 1886; Charles J. M. Gordon 1887; Ernest F. Scott, 1888; Hugh Macpherson, 1889; John E. M'Fadyen, 1890.

THOMSON EXPERIMENTAL SCHOLARSHIPS.—Three Scholarships, in value about £20 each, for the promotion of Experimental Research, founded by Sir William Thomson, LL.D., D.C.L., Professor of Natural Philosophy in the University, by letter to the Principal, of date September 6th, 1869, in which, after referring to "the liberal and friendly spirit which had been shown him by his colleagues in respect to his connection with telegraphic enterprise," and the "facilities for experimenting which the College had afforded him," he states that "he wished to mark his sense of these benefits by setting aside something of what he had received to assist in promoting the cultivation of experimental investigation in Glasgow University," and for this purpose offered for the acceptance of the Senate the sum of £1,000.

The scholars are appointed by the Senate on the recommendation of the Professor of Natural Philosophy from among students who have previously shown their zeal and ability in Experimental Investigations in the Physical Laboratory, and they are required to engage in the continued prosecution of Experimental Investigations

in the Laboratory for not less than nine months of the year, to the satisfaction of the Professor of Natural Philosophy. These Scholarships may be held along with any other Bursary, Scholarship, or Fellowship.

Scholars for 1889—Andrew Meikle, William Buchanan, James H. Gray, Evan Parry.

3.—PRIZES.

Besides the class Prizes, and a number of Prizes given by the different Professors for particular kinds of merit, there are others which the generosity of public-spirited individuals has founded for the encouragement of learning in the University.

The names of the Prizemen for Session 1889-90 will be found in the Degree and Prize List.

INDEX.

FOUNDATION.	NATURE OF PRIZE.	AWARDED FOR
Arnott, - - - -	£25 and £15,	Examinations.
Brunton Memorial, -	£10,	Do.
Buchanan (3), - - -	Books,	Do.
Cleland, - - - -	Gold Medal,	Essay.
Coulter, - - - -	Two at £5 each,	Essays.
Cowan (3), - - - -	Gold Medals,	Examinations.
Cunninghame, - - -	Gold Medal,	Do.
Dobbie-Smith, - - -	Gold Medal,	Essay.
Dowanhill, - - - -	£21 and £10, 10s.,	Elocution.
Ewing, - - - -	Gold Medal (biennial),	Essay.
Findlater, - - - -	£38,	Examination.
Gartmore, - - - -	Gold Medal (biennial),	Essay.
Gladstone Historical, -	£21 (biennial),	Examination.
Harvey, George, - -	£20,	Do.
Henderson, - - - -	£21,	Essay.
Jamieson, - - - -	£10,	Examination.
Jeffrey, - - - -	Gold Medal,	Do.
Thomas Logan Memorial	Do. and money,	Do.
Luke Historical, - -	£10 (biennial),	Do.
Macfarlan and Cook, -	£21,	Do.
Muirhead, - - - -	Books,	Do.
Rae Wilson, - - - -	Gold Medal.	Essay.
Reid, John, - - - -	£25,	Original Research.
Ross, Robert (2), - -	Med., books, or money,	Examinations.
Scott-Macfarlan, - -	Gold Medal,	Examination.
University, - - - -	Silver Medal,	Essay.
Walker (4), - - - -	Books, &c.,	Examinations.
Watt, - - - -	£10,	Essay.

ARNOTT PRIZES.—Founded in 1869, by Dr. Neil Arnott, of London, who presented to the Senate the sum of £1,000 to found a Prize, or Prizes, for the encouragement of the study of Natural Philosophy among the Medical students of the University.

By resolution of the Senate, of date April 10, 1873, the following regulations were adopted :—

1. That there shall be two separate examinations—one in General Physics, for students of the first and second years of their Medical studies ; the other for students of the third and fourth years, in Physiological Physics, or the application of the doctrine of General Physics to Physiological Science.

2. The knowledge required for the second of these examinations being much more extensive, and of a much higher order than that required for the first, and being the kind of knowledge of which it is most important to encourage the cultivation, as not only useful in the practice of the Medical Art, but eminently fitted to advance the Physiological Sciences ; that a sum of not less than Twenty-five pounds be offered annually, in one or several sums, as circumstances may require, to the student or students who excel in the second examination.

3. That the remaining portion of the revenue derived annually from Dr. Arnott's donation be offered in the same way to the student or students who excel in the first examination.

4. That the first examination be under the superintendence of the Faculty of Arts, with the Professors of Physiology and of Anatomy as Assessors.

5. That the second examination shall be under the superintendence of the Medical Faculty, with the Professors of Natural Philosophy and of Mathematics as Assessors.

6. That all candidates shall, at the commencement of each session, intimate their intention to the Assistant Clerk (Matriculation Office); and that, to prevent unqualified persons from coming forward, each candidate shall produce satisfactory evidence of his having attended a Course of Lectures on Natural Philosophy, or of having been a pupil in a Laboratory where Practical Physics or Practical Physiology is taught ; or, failing of these qualifications, he shall deposit the sum of ten shillings, which shall be forfeited if his examination marks fall below the average standard.

7. That every candidate who passes creditably the first examination shall be thereby entitled to come forward for the second, without being obliged to deposit the sum of ten shillings.

8. That no prize shall be awarded without sufficient merit being shown, and that in the event of one or more of the prizes on any occasion not being awarded, the amount shall be added to the principal sum.

The examination will be in writing, and will be held on Saturday, the 8th November, 1890, in the Examination Hall, at 2 P.M. In-

tending Candidates to give in their names to the Assistant Clerk (Matriculation Office) on or before 1st October.

BRUNTON MEMORIAL PRIZE.—Founded in 1879, in memory of the late Duncan M. Brunton, M.A., M.B., Paisley, a distinguished graduate of this University, who died on 16th November, 1876, of fever, contracted in the diligent discharge of his professional duties in the Royal Infirmary of Paisley. The Committee of Subscribers paid over to the Senate the sum of £300, the interest of which is to be given annually to the most distinguished graduate in Medicine of the year.

BUCHANAN PRIZES.—A Bursary was founded in 1866, in recognition of the eminent services of Robert Buchanan, LL.D., as Professor of Logic and Rhetoric in the University during the long period of forty years. The fund consists of a sum of £314 raised by subscription. The Buchanan Bursaries having been founded under the Will of Professor Buchanan, the proceeds of this fund are now, with the sanction of the subscribers, applied to the purchase of books, which are annually awarded to the most distinguished students in the classes of Logic, Moral Philosophy, and English Literature.

CLELAND GOLD MEDAL.—Dr. James Cleland, Superintendent of Public Works in Glasgow, who died 14th October, 1840, founded a Gold Medal of the value of Ten Guineas, to be bestowed in alternate years on a student of Divinity and a student of Natural Philosophy, as a prize for the best Essay on any subject to be prescribed by the Principal and Professors of the University.

COULTER PRIZES.—In 1787, Mr. James Coulter, merchant in Glasgow, bequeathed £200 to the University, "the annual proceeds to be applied in premiums, one or more, either pecuniary or honorary, for the encouragement of Composition and Elocution, upon subjects of the Faculty's choosing." The interest of this sum is now divided into Two Prizes of £5 each; the one to be given in alternate years for a Sermon or Theological Essay, and for an Essay on Mental Philosophy and English Literature, the other to be given annually for a translation from some Classical Author, or other composition connected with Classical Literature. The competition for these prizes is open to all students of the University.

COWAN GOLD MEDALS.—In 1836, Dr. Cowan of Sunderland presented to the University the sum of £400, the interest to be applied annually in the purchase of Two Gold Medals of the value of £10 10s. each, to be awarded to the two students who may distinguish themselves most in the Greek and Latin Examination upon the Blackstone; and shortly afterwards (1839) the same gentleman presented

the University with an additional sum of £105, the interest to be expended annually in the purchase of a Gold Medal of the value of £5, to be awarded to the best student in the Humanity Class.

The examination for Dr. Cowan's Blackstone Medals will be held early in November, 1890. Competitors to be eligible must be public students in some curriculum class in the Faculty of Arts.

For the Greek Medal—1. A candidate must have received a Certificate in the Greek Class for session 1889-90.

2. Every candidate will be required to answer a Preliminary Paper, consisting of unprepared passages for translation.

3. Two or more candidates, selected by this paper, will on a subsequent day be examined orally in the books which they offer.

4. Each selected candidate must offer for the Oral Examination (i.) one Verse Subject, (ii.) one Prose Subject. (i.) The Verse Subject must be *either* five books of Homer, *or* two Greek plays (tragedies or comedies). (ii.) The Prose Subject may be any *one* of the following:—(a) Herodotus—two books; (b) Thucydides—two books; (c) Plato—two dialogues, *or* two books of the *Republic*; (d) Aristotle—two books of the *Ethics*, of the *Politics*, *or* of the *Rhetoric*.

5. Any member of the Greek Class for session 1890-91 is at liberty to go in for the Preliminary Paper, even though he is not a candidate for the Cowan Medal; and if he acquits himself with distinction in that paper, his name will be mentioned when the award of the Medal is announced.

For the Latin Medal, competitors must in the session preceding the competition have received a public ticket of the Latin Class.

Notice is hereby given, that at the examination for Dr. Cowan's Medals in November, 1890, and thereafter, no one will be admitted to compete for the Greek Cowan Medal who has attended for more than three sessions, or who, after passing the preliminary examination in Greek, has attended for more than two sessions in any Scottish University, and no one shall be admitted to compete for the Latin Cowan Medal who has attended for more than two sessions, or who, having been admitted to the Senior Class in consequence of having passed the preliminary examination in Latin, has attended for more than one session in any Scottish University.

CUNNINGHAME GOLD MEDAL.—In 1886 Mr. Andrew Cunningham, Town Clerk Depute of Glasgow, bequeathed to the University, *inter alia*, £350, free of legacy duty, with directions that the annual revenue thereof should be applied in purchasing a Gold Medal as a prize in the class of Mathematics.

DOBBIE-SMITH GOLD MEDAL.—In 1881 Mr. Thomas Smith, L.R.C.S.E., Heriot Hill House, Edinburgh, presented to the University, in memory of his wife, lately deceased, the sum of £150 for the purpose of founding a University Gold Medal of about £10 in value,

to be given biennially for the encouragement of the study of Botany. The competition is open to all Matriculated Students of the session in which the Medal is to be awarded : the subject of competition—which shall always be a Botanical subject—to be selected by the Professors of Botany and Natural History, and announced at least eighteen months before the date fixed for receiving essays.

The subject for the next competition to be an Essay on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and the essay to be accompanied by an illustrative series of macroscopic and microscopic specimens. Essays to be given in to the Principal on or before 14th November, 1890.

DOWANHILL PRIZES.—Two prizes, one of £21, and the other of £10 10s., for “Excellence in the Art of Oratory and Declamation, and in the practice of a refined and pleasing Delivery, and in reading the Scriptures,” founded in 1865, by Mr. John Buchanan, merchant in Glasgow, as sole Trustee, nominated and appointed by his deceased brother, Mr. Thomas Buchanan, also merchant in Glasgow, and in order to carry out the intentions of his said brother. These prizes are awarded annually to Students of Divinity, at the termination of the third or fourth session of their attendance on the Hall, by the votes of their fellow-students. Competitors must have attended for two sessions an Elocution Class, taught by a master approved by the Senate.*

The above foundation is in memory of the late Mr. James Buchanan, of Dowanhill, of Ellison MacCallum, his wife, and of Mr. George Buchanan, of Stanley, Perthshire, the Father, Mother, and elder Brother of the Founder.

EWING GOLD MEDAL.—In 1828, James Ewing, LL.D., of Levenside, presented the University with £100 for a Gold Medal to be given every second year for the best essay on an historical subject. The Gartmore and Ewing Medals are to be given alternately.

FINDLATER (DIVINITY) SCHOLARSHIP OR PRIZE.—This Scholarship, consisting of the free annual proceeds of the sum of £1,000 gifted to the Senate by Mr. Alexander Findlater, Dublin, was founded in 1871. The following regulations were adopted by the Senate, Nov. 30th, 1871, with modifications on 9th March, 1882, and 20th March, 1884 :—

1. The Findlater Scholarship shall be awarded annually by competition.

2. At the competition in November, 1885, and thereafter biennially (1891), the examination shall be in Hebrew, New Testament Exegesis, and Apologetics ; at the competition in April, 1885, and thereafter biennially (1891), the examination shall be in Divinity

(Biblical and Systematic Theology, Church History, and Biblical Criticism).

3. The subjects of Examination in each of the departments shall be the same as those prescribed for the Degree of B.D.

4. The examination shall be held at the same time as the examination for the Degree of B.D.

5. The competition shall be open to all students of Divinity who shall complete the ordinary course at the close of the session in which the examination is held, or who shall have completed their course at the close of the session immediately preceding.

The next competition will take place in April, 1891, the examination being in Divinity, Church History, and Biblical Criticism. Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on or before 10th March, 1891.

GARTMORE GOLD MEDAL.—In 1788, Mr. Robert Grahame, of Gartmore, presented the University with £100 for the institution of a Prize for the best essay on any subject intimately connected with the nature, foundation, advantages, and support of political liberty. This Prize—a Gold Medal—is open to the competition of all students of the University, and is given biennially. The surpluses to be accumulated till a capital is formed sufficient to found a Bursary.

GLADSTONE HISTORICAL PRIZE.—Founded in 1880 by the Gladstone Club, in commemoration of the election in 1877 of the Right Honourable William Ewart Gladstone, M.P., as Lord Rector of Glasgow University, and in recognition of his distinguished career as a scholar, author, statesman, and orator. The following are the regulations:—

1. The Prize shall be given for the best examination in English History.

2. The examination shall be held biennially.

3. The value of the Prize shall be Twenty Guineas.

4. The competition shall be open to Graduates of Glasgow University of not more than two years' standing from the date of their first graduation. The sixth competition will take place in January, 1892. Names of competitors to be given in to the Assistant Clerk (Matriculation Office) not later than 1st December, 1891.

GEORGE HARVEY PRIZE.—Founded in 1874, by the liberality of a donor who has withheld his name, in memory of the late Mr. George Harvey, of No. 9 Park Quadrant, Glasgow. Annual value, ordinarily £20, which is given as a prize in the class of Civil Engineering, to the student who shows, during the session, the greatest proficiency in the department of applied Mechanics and Shipbuilding. Any accumulation of surplus income to be given as a second prize of £5 or £10 in the same department.

HENDERSON PRIZE.—In 1850, Mr. John Henderson, of Park, merchant in Glasgow, instituted an annual prize of the value of £21 sterling, to be called the “Henderson Prize,” for the best Essay on some subject relating to the Divine Authority and Practical Value and Influence of the Sabbath.

JAMIESON PRIZE.—In 1854 a subscription list was opened for the foundation of a prize or scholarship in Divinity, but the commercial difficulties of the following years prevented the purpose of the promoters being carried out at the time. In 1881 the sum subscribed, amounting, with accumulated interest, to £319 6s. 4d., was handed over to the University, and the Senate resolved to connect it with the name of the Convener of the Committee of subscribers, the Rev. Robert Jamieson, D.D., formerly minister of St. Paul’s Church, Glasgow.

The following regulations were adopted by the Senate, March 9th, 1882, with modifications on 20th March, 1884:—

1. The Jamieson Prize shall be awarded annually by competition.
2. At the competition in April, 1885, and thereafter biennially (1891), the examination shall be in Divinity, Church History, and Biblical Criticism; at the competition in November, 1885, and thereafter biennially (1891), the examination shall be in Hebrew, New Testament Exegesis, and Apologetics.
3. The subjects of examination in each of the departments shall be the same as those prescribed for the Degree of B.D.
4. The examination shall be held at the same time as the examination for the Degree of B.D.
5. The competition shall be open to all students of Divinity who shall complete the ordinary course at the close of the session in which the examination is held, or who shall have completed their course at the close of the session immediately preceding.
6. The Prize shall not be awarded to any one who has gained a Scholarship or Fellowship in Divinity.

The next competition will take place in April, 1891, the examination being in Divinity, Church History, and Biblical Criticism. Names of candidates to be given in to the Assistant Clerk (Matriculation Office), on or before 10th March, 1891.

JEFFREY GOLD MEDAL.—Mr. Francis Jeffrey, advocate (afterwards Lord Jeffrey), on his re-election as Lord Rector of this University, in 1821, gave a prize of a Gold Medal, and continued to do so annually.

In 1849, Lord Jeffrey presented the University with the sum of £120 for a Gold Medal to be awarded each session to the most distinguished student of the Greek Class.

THOMAS LOGAN MEMORIAL MEDAL AND PRIZE.—Mr. David Logan, fruiterer, Glasgow, who died on 19th May, 1886, directed his

trustees to pay to the Senate the sum of £500, free of legacy duty, to found a Gold Medal and Prize in memory of his brother, Thomas Logan. The Medal is of the value of £5, and the Prize consists of the balance of the annual proceeds given in money. They are awarded annually in November to the most distinguished graduate in Arts of the year.

LUKE HISTORICAL PRIZE.—A sum of £150 was collected in 1863 by various friends of the late Mr. George Rankin Luke, in Oxford and Scotland, for the purpose of founding a prize in his name, in connection with the University of Glasgow, where he studied during two years of his brilliant career as a scholar.

The Senate, with the sanction of the promoters of this fund, resolved to employ it to found a biennial Prize, for excelling in a competitive examination on general subjects connected with Ancient History and Literature. The examination to be conducted either altogether in writing, or by combination of writing and *viva voce* questions; and the determination to rest with the Professors of Humanity and Greek, in conjunction, in case of uncertainty, with any one of their colleagues whom they may desire to nominate.

The Prize on the above foundation is given to the student who acquits himself best in an examination in Ancient Greek and Roman History.

The next competition will be held in January, 1891. In addition to historical questions, original passages will be given for translation from the standard authors. The competition is open to all students who shall have attended during session 1889-90 any Greek or Latin Class.

Names of Candidates to be given in to the Assistant Clerk (Matriculation Office) on 1st December, 1890.

MACFARLAN AND COOK TESTIMONIAL PRIZE.—The Macfarlan and Cook Testimonial Prize of Twenty Guineas, instituted in 1847 (along with a similar Prize in the University of St. Andrews), by the friends of the late Principal Macfarlan, D.D., of this University, and Professor George Cook, D.D., of St. Andrews, as a memorial of the services rendered to the Church of Scotland by these eminent clergymen, is bestowed annually on the Theological Student, of three years' standing, who shall pass the best examination in Greek, Moral Philosophy, Hebrew, Ecclesiastical History, and Divinity.

MUIRHEAD PRIZES.—In 1776, Messrs. John Muirhead of Teggetsheugh, and Peter Muirhead, minister of Dysart, brothers of the deceased Mr. George Muirhead, Professor of Humanity in Glasgow College, presented a donation of £100, the interest to be applied in purchase of books to be awarded as prizes to those students attending the Humanity Class who shall be thought most deserving.

RAE WILSON GOLD MEDAL.—Dr. William Rae Wilson, of Kelvinbank, who died 2nd June, 1849, bequeathed the sum of £300, two-thirds of the interest of which he appointed to be applied annually to the purchase of a Gold Medal to be bestowed upon the Divinity student who shall produce the best Prize Essay on “The Life of our Adorable Redeemer, Jesus Christ; His Righteousness, Atoning Death, and that Everlasting Benefit arising from these blessings to a lost and miserable world.”

JOHN REID PRIZE.—A Prize of the value of £25 has been founded by Miss Mary Reid, 15 Woodside Quadrant, Glasgow, in memory of her brother, the late Mr. John Reid, surgeon, 150 Renfrew Street, Glasgow. The prize will be awarded for the best original research conducted in one of the Hospitals or Scientific Laboratories in Glasgow, bearing on any department of Medical Science. Competitors must be registered students of medicine (not in possession of a legal qualification) of not less than two years’ standing at the date of application, and they will require to produce evidence of having attended a regular course of instruction, in one of the medical schools of Glasgow, on *four* of the following subjects:—Medicine, Clinical Medicine, Surgery, Clinical Surgery, Materia Medica, Physiology, Pathology—such course of instruction having been received, in whole or in part, within two years of competing for the prize. The prize may be awarded for one, two, or three years, according to the value of the work done.

Further information may be obtained from Mr. John Hurll, jun., writer, 121 West Regent Street, Glasgow.

ROBERT ROSS PRIZE.—The late Robert Ross, Esq., writer, Glasgow, by his Will, dated 1880, bequeathed to the Dean and Council of the Faculty of Procurators, Glasgow, the sum of £500, to be held by them in trust, “to the end that the free annual income thereof shall be applied as an annual prize in the form of a medal, of books, or of money, as the Dean and Council may determine, to a student in each of the Scots Law Class and the Conveyancing Class of the University of Glasgow in equal proportions, such prize to be awarded for eminence displayed, either in the general business of the class or in any other manner in which the said Dean and Council may prescribe.”

SCOTT-MACFARLAN GOLD MEDAL.—Founded in 1870, by Miss Scott, daughter of the late Rev. Robert Allan Scott, Vicar of Cranwell, Lincolnshire, in fulfilment of her father’s intentions.

Mr. Scott, wishing to encourage the study of Greek in the University of Glasgow, of which he was an alumnus, and from which he obtained an Exhibition to Balliol College, Oxford, in 1825, dedicated to that purpose the sum of £100 for a Gold Medal, to be

called the "Scott-Macfarlan Prize for Greek," in memory of Mr. Scott's kinsman, the late Principal Macfarlan, and to be given on the last day of the session in each year to the best scholar in Greek of the session; the Medal to be adjudged by the votes of the students of the upper Greek class. As the Jeffrey Medal has long been given to the best student in the senior Greek Class, Miss Scott consented to give the "Scott-Macfarlan" Medal to the best student in the middle class.

UNIVERSITY MEDAL.—The University bestows annually a Silver Medal for an Essay in Mental Philosophy.

WALKER PRIZES.—Four Prizes (consisting of Books or Instruments) to be competed for each year by students of Civil Engineering and Mechanics, founded in 1857 and 1861 by James Walker, Esq., Civil Engineer, LL.D., F.R.SS.L and E.

The competition is open to all persons who shall have duly entered themselves as attending the class of Civil Engineering and Mechanics during the current session.

The competitors are examined orally and in writing; and two of the prizes are awarded on the results of the written examinations; the other two by votes of the class.

WATT PRIZE.—In 1808, James Watt, LL.D., presented the College with a perpetual annuity of £10, for the institution of a prize, to be awarded to the author of the best Essay on some subject in the following branches of study, to be taken in rotation :—
1. Any branch of Mechanics or its dependent Arts. 2. Statics, and the Machines and Arts dependent. 3. Pneumatics, Statistical or Chemical, Machines and Arts. 4. Hydraulics, Hydrostatics, their Machines and Arts. 5. Chemistry, its Arts and Apparatus. All actual students who have completed, or who, at the end of the session in which the Prize is awarded, shall have completed a regular course of study in Languages and Philosophy, may be competitors.

4.—*LIST OF BURSARIES, &c., OPEN TO COMPETITION DURING SESSION 1890-91.*

A.—FACULTY OF ARTS.

1. BURSARIES.

The greater number of the Faculty of Arts Bursaries in the patronage of the Senate are awarded in accordance with the results of the Annual Bursary Examinations held at the commencement of the Winter Session. The various open Bursaries are awarded, according to their respective values, to those who stand highest in the List published by the Examiners. In the case of Bursaries restricted to the inhabitants of particular localities, the competitors have to undergo the same examination as those competing for open Bursaries, and the Bursaries are awarded to those students among the qualified candidates who pass the best examination. The Faculty of Arts are ready to receive at the same time for examination candidates for any Local Bursaries who may be sent to them.

The Examination for these Bursaries is combined with the Preliminary Examinations in Latin, Greek, and Mathematics, and comprises papers in Latin and Greek Grammar and Syntax, Latin Prose Composition, translations of passages from ordinary Latin and Greek Authors, Mathematics (see page 116), together with questions to test general knowledge and facility of composition in English.

The competitors for all Arts Bursaries, for students entering the first or second session, are examined on the same set of papers; but the same standard of excellence is not expected from candidates for Bursaries for which the competition is restricted, as from candidates for open Bursaries; and in the case of Bursaries restricted to particular localities, or particular names or classes, students who show satisfactory knowledge of Latin and Greek Grammar, and of Arithmetic, with the Elements of Mathematics, will be considered to have done well enough to have a Bursary awarded to them.

FOR STUDENTS ENTERING THE FIRST SESSION IN ARTS.

1. *Black Bursary*, annual value £21, tenable for four years—open.

2. *Buchanan Bursary*, annual value £13, tenable for three years—open.

3. *Forfar Bursary*, annual value £30, tenable for four years—open.

4. *Foundation Bursary*, annual value £10, tenable for four years—open.

5. *General Council Bursary*, annual value £20, tenable for three years—open.

6. *John Leyden Bursary*, annual value £13, tenable for three years—open.

7. *Scott Bursary*, annual value £25, tenable for four years—open.

8, 9, 10, and 11. *Four John Clark (Mile End) Bursaries*, annual value £30 each, tenable for four years, for Protestant students, sons of Protestant parents.

12. *Barbour Kilbarchan Bursary*, annual value about £16, tenable for three years, open only to candidates not exceeding 18 years of age from Kilbarchan Public School.

13, 14, and 15. *Three Biggart Memorial Bursaries*, annual value £25 each, tenable for four years, for students preparing for the Ministry of the United Presbyterian Church.

16. *Brand Bursary*, annual value about £24, tenable for four years, for students preparing for the Ministry of the United Presbyterian Church.

17. *Buchanan (Bellfield) Bursary*, annual value £50, tenable during the whole curriculum, for students preparing for the Ministry of the Church of Scotland.

18. *Denny Bursary*, annual value £30, tenable for four years, for students from Dumbarton Burgh Academy. [Tenable in any Faculty.]

19. *Craig Bursary*, annual value £25, tenable for four years. Preference to kindred of founder, and students of the name of Craig. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of October.

20. *James Ewing Bursary*, annual value £20, tenable for four years, for sons of Glasgow merchants. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of October.

21. *Merchants' House Bursary*, annual value £25, tenable for four years. Apply to W. H. Hill, LL.D., Clerk to the Merchants' House, on or before 1st October.

22 and 23. *Two Fullarton of Overton Bursaries*, annual value £15 each, tenable for two years, for students under 25 years of age, from the district of Cunninghame, in Ayrshire. Subjects of Examination—Latin, Elementary Mathematics, and English.

24 and 25. *Two Hamilton Educational Endowments Trust Bursaries*, annual value of each £15, tenable for three years, for students from public or State-aided schools in the Burgh or Parish of Hamilton. Apply to Patrick Keith, Esq., Hamilton, before the first day of October.

26. *Hannay Bursary*, annual value about £15, tenable for three years, for students preparing for the Ministry of any Evangelical Religious Denomination in Scotland. Apply to Robert Brodie, Esq., 77 St. Vincent Street, before the first day of October.

27 and 28. *Two Glasgow City Educational Endowments Bursaries*, annual value £25 each, tenable for four years, for students from public or State-aided schools in Glasgow. Apply to Dr. F. L. Robertson, Hutchesons' Buildings, Ingram Street, before the first day of October.

29, 30, 31, 32, and 33. *Five Hutchesons' Educational Trust Bursaries*, annual value £20 each, tenable for four years, for students who have attended two sessions in the secondary department of Hutchesons' Grammar School.

34. *Laing Bursary*, annual value £20, tenable for three years. Preference, *ceteris paribus*, to natives of Breechin.

35. *James Lochhead Bursary*, annual value £16, tenable for three years, for students of name Lochhead, belonging to the Established Church of Scotland.

36. *Lusk Bursary*, annual value £33, tenable for three years, for students preparing for the Ministry of any of the Presbyterian Churches in Scotland.

37, 38, 39, 40, and 41. *Five Orr Ewing (Dumbartonshire) Bursaries*, annual value £25 each, tenable for four years, open only to candidates under 17 years of age from public or State-aided schools in the County or Presbytery of Dumbarton.

42. *James Paterson Bursary*, annual value £23, tenable for four years, for students preparing for the Ministry of the Baptist Church.

43. *Second Patrick Bursary*, annual value about £40, tenable for two years, for students from Renfrewshire.

44. *Pollock Bursary*, annual value £40, tenable for three years. Preference to candidates educated in Paisley.

45. *Ramsay-Walker Bursary*, annual value £12, tenable for four years, for students preparing for the Ministry of the Established Church of Scotland. Preference to kin of founder; whom failing, to students of name of Walker; whom failing, to natives of Glasgow.

46. *Stewart Bursary*, annual value £15, tenable for four years, for students of the name Stewart or Simpson.

47. *Glasgow Stirlingshire Society Bursary*, annual value £25, tenable for four years, for students who have been born and educated in the County of Stirling. Apply to Mr. Arthur Forbes, writer, 146 Buchanan Street, Glasgow, on or before 1st October.

48. *James Thomson Philosophical Entrance Bursary*, annual value £11, tenable for two years. Candidates must not have attended the Logic, Moral Philosophy, or English Literature Class, and must not have studied at any other Scottish University. The subject of examination is English Literature.

FOR STUDENTS ENTERING THE SECOND SESSION IN ARTS.

Nos. 3, 4, 5, 6, 7, 16, 17, 19, 22, 23, 35, 36, 46, 48, in the preceding list.

49. *Park General Council*, annual value £20, tenable for two years—open.

FOR STUDENTS ENTERING THE THIRD SESSION IN ARTS.

50 and 51. *Two Lorimer Bursaries*, annual value £20, tenable for three years. The examination will take place along with the preliminary examinations in Mathematics for M.A., but may embrace higher papers.

52 and 53. *Two Lorimer Bursaries*, annual value £20, tenable for three years. Subjects of Examination—Professor Veitch's *Institutes of Logic, Part I.* (large print only); Descartes (English translation of 1879, or subsequent edition), *Introduction*, Sections I., II., III.; *Discourse on Method: Meditations*, I. and II.; Spalding's *English Literature*, pp. 169-269; Milton's *Paradise Lost*, Book I.; Zeller's *Socrates and the Socratic Schools* (translated by Reichel), pp. 1-200.

FOR STUDENTS IN ARTS, WITHOUT RESTRICTION TO A PARTICULAR SESSION.

54. *James Ferguson Bursary*, annual value £80, tenable for two years. Preference, *ceteris paribus*, to natives of Lesmahagow, or Muirkirk, or Pictou, Nova Scotia, and also to students of the name Ferguson or Weir, or to the kin of the Founder. The examination is the same as that for honours in the department of Mental Philosophy, including English Literature.

55. *Malcolm Kerr Bursary*, annual value £18, tenable for three years. The subjects of examination are in Natural Philosophy and are the same as for honours for the Degree of M.A.

56 and 57. *Two Metcalfe Bursaries*, each of annual value £25, tenable for two years. Open to students entering the Senior Mathematics or Chemistry.

58. *Monteith Bursary*, annual value about £14, tenable for three years. Open only to natives of Scotland and sons of Scottish parents. Examination in German.

59. *Muir Junior Bursary in Mathematics*, annual value £9, tenable for sessions 1891-92, 1892-93. The appointment will be determined by the results of the written examinations passed in the course of the session 1890-91 by the public students of the upper junior class of Mathematics.

60. *Muir Senior Bursary in Mathematics*, annual value, £18, tenable for session 1891-92. The appointment will be determined by the results of the written examinations passed in the course of the session 1890-91 by the public students of the Senior Mathematical Class.

61 and 62. *Two Muir Bursaries in Civil Engineering and Mechanics*, annual value, £12 10s. each, tenable for session 1891-92.

2.—FELLOWSHIPS, SCHOLARSHIPS, Etc.

63. *George A. Clark Scholarship in Mental Philosophy*, annual value about £175, tenable for four years. Open to Glasgow Masters of Arts with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Classics, but no student shall be eligible for the examination after the expiration of more than three winter sessions from the time of his completing the course necessary for the M.A. Degree.

64. *Scott Scholarship in Classics and English Literature*, annual value £80, tenable for two years. Open to Glasgow Masters of Arts of not more than three years' standing, having graduated with Honours, or students presenting themselves for the final examination for the M.A. Degree with Honours in Classics.

65. *Eglinton Fellowship in Classics*, annual value £100, tenable for three years. Open to Glasgow Masters of Arts who have graduated in April or November 1890.

66. *Breadalbane Scholarship*, annual value £50, tenable for three years. Open to Glasgow Masters of Arts or Bachelors of Science in the Department of Engineering Science who have graduated within a period of not more than three years preceding the competition.

67. *William Ewing Fellowship in Classics*, annual value £80, tenable for one year. Open to Glasgow Masters of Arts.

68. *William Ewing Fellowship in Mathematics*, annual value £80, tenable for two years. Open to Glasgow Masters of Arts.

69. *John Clark (Mile-end) Scholarship in Classics*, annual value £50, tenable for four years. Open to all Protestant students, of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

70. *John Clark (Mile-end) Scholarship in Natural Science*, annual value £50, tenable for four years. Open to all Protestant students of good moral character, sons of Protestant parents, and who have completed their curriculum in Arts in Glasgow University.

71. *Sandford Scholarship*, annual value £20, tenable for two years. Open to all matriculated students (not Masters of Arts), who have attended the Public Greek classes for not less than two sessions.

72. *Snell Exhibition*, value about £133 a year, for three years. Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided as undergraduate students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland."

73. *Armagh Bursary*, annual value £25, tenable for three years. Open to Masters of Arts in their first session of Theology, Law, or Medicine. The most distinguished graduate in Arts of the year, who offers himself as a candidate, is appointed by the Senate.

74. *Luke Historical Prize* of £12, open to all students who have attended during session 1889-90 any Greek or Latin class.

75. *Thomas Logan Memorial Medal and Prize* will be awarded in November to the most distinguished graduate in Arts of the year.

DATES OF EXAMINATIONS.

The examinations for Bursaries Nos. 1 to 47 inclusive, and for No. 49, in the above list, will commence on Tuesday, 28th October, at 10 a.m. The examination papers will be given in the following order, viz.:—

On Tuesday, 28th October,	at 10 a.m., Latin (1st paper).
“ “	1 p.m., Latin (2nd paper).
“ “	3.30 p.m., Latin (3rd paper).
On Wednesday, 29th October, at 10 a.m.,	Mathematics (1st paper).
“ “	2 p.m., English.
On Thursday, 30th “	at 10 a.m., Greek (1st paper).
“ “	2 p.m., Greek (2nd paper).
On Friday, 31st “	at 10 a.m., Mathematics (2nd paper).

The examinations for Bursary No. 48, will be held on Saturday, 1st November, at 10 a.m.; for Bursaries Nos. 50 and 51, on Wednesday, 29th October, and Friday, 31st October, at 10 a.m. each day; for Bursaries Nos. 52, 53, and 54, on Saturday, 1st November, Wednesday, 5th November, and Thursday, 6th November, at 10 a.m. each day; for Bursary No. 55, on Saturday, 8th November, at 10 a.m. and 2 p.m.; for Bursaries Nos. 56 and 57, on Friday, 7th November, at 11 a.m. and 3 p.m., and Saturday, 8th November, at 10 a.m. and 2 p.m.; and for Bursary No. 58, on Saturday, 1st November, at 2 p.m.

The examinations for the Scholarships and Fellowships, Nos. 63 to 70 inclusive, in the above list, will be held along with the examinations for Honours in the several departments for the degree of M.A., in November, 1890; for No. 71 in April, 1891; for No. 72 along with the examinations for Honours, in April, 1891, the English paper being taken on Saturday, 11th April, at 10 a.m.; and for the Prize, No. 74 in January, 1891.

DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursaries Nos. 1 to 51 inclusive are required to give in their names to the Assistant Clerk (Matriculation Office), not later than Tuesday, 21st October; and for Bursaries Nos. 52 to 58, not later than Tuesday, 1st October. A schedule, which is to be filled up by each candidate, may be obtained from the Assistant Clerk (Matriculation Office). Candidates for the Bursaries Nos. 19 to 21 must, besides, give in their names to W. H. Hill, LL.D., Clerk to the Merchants' House, before the first day of October; for Nos. 24 and 25, to Patrick Keith, Esq., Hamilton, before the first day of October; for No. 26 to

Robert Brodie, Esq., 77 St. Vincent Street, before the first day of October ; for Nos. 27 to 33 to Dr. F. L. Robertson, Hutchesons' Buildings, Ingram Street, before the first day of October.

Candidates for the Fellowships, etc., Nos. 63 to 71 inclusive, are required to give in their names to the Assistant Clerk (Matriculation Office), not later than 1st October ; for No. 72, candidates are expected to inscribe their names in a book kept at the Clerk of Senate's Office for the purpose, not later than the 1st December, 1890; and for Nos. 73 and 74, candidates are required to send their names to the Assistant Clerk (Matriculation Office) on 1st December, 1890.

B.—FACULTY OF DIVINITY.

Open to Competition during Session 1890-91.

1 and 2. *Two John Adam Bursaries*, annual value £15, tenable for the Divinity Course. Open to students of Theology of the first year.

3. *Black Bursary*, annual value £42, tenable for three years. Open to students of Theology of the first year holding a Degree in Arts in any Scottish University, or who have passed their examinations in any two departments for graduation in Arts. Candidates must be members of the Established Church of Scotland.

4. *Logan Bursary*, annual value £16, tenable for three years. Open to students of Theology of the first year, with a preference, *ceteris paribus*, to the names Logan and Johnstone.

5 and 6. *Two Lorimer Bursaries*, annual value £20, tenable for three years. Open to Students entering the Divinity Hall.

7. *Lumsden Bursary*, annual value £15, tenable for four years. Open to students of the first year in Divinity, with a preference to sons of members, or of deceased members of the Stationers' Company of Glasgow.

8. *Marshall Bursary*, annual value £17, tenable for three years. Open to students entering upon the study of Divinity, with a preference to the name Marshall.

9. *William Muir Divinity Bursary*, annual value £25, tenable for two years. Open to candidates who have passed the examination of the Synodical Board for entrance to the Divinity Hall of the University. Apply to the Rev. Dr. Robertson, Hutchesons' Buildings, Ingram Street, on or before the fifth day of November.

10. *Notman Bursary*, annual value £17, tenable in the Divinity Course.

11. *John Ross, Jun., Bursary*, annual value £36, tenable for three years. Open to students of Divinity of the first year preparing for the ministry of the Established Church of Scotland.

12. *Black Theological Fellowship*, annual value £147 or thereby, tenable for two years. Open to Masters of Arts from any of the Universities of Scotland who have completed the ordinary curriculum of Theological study in the University of Glasgow in the year 1891, or in any of the three preceding years.

13. *The Findlater Scholarship Prize*, value about £38 sterling, for an examination in Divinity, Church History, and Biblical Criticism. Open to Divinity students who have completed the ordinary course in Session 1889-90, or who shall complete it in Session 1890-91.

14. *The Jamieson Prize*, value about £10 sterling, for an examination in Divinity, Church History, and Biblical Criticism. Open to Divinity students who have completed the ordinary course in Session 1889-90, or who shall complete it in Session 1890-91.

15. *The Macfarlan and Cook Testimonial Prize*, of £21, open to Theological students of 'three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

16 and 17. *Two Dowanhill Prizes*, one of £21, and the other of £10 10s., for Elocution. Open to students of Divinity of the third year.

DATES AND SUBJECTS OF EXAMINATIONS.

The Examinations for Nos. 1 to 11 inclusive, in the above list, will be held on Thursday, 13th November, and Friday, 14th November, at 10 a.m. each day.

The following are the subjects of examination for Bursaries Nos. 1 to 11.

LATIN.—Livy, Book V. Horace, *Odes*, Book II. Translation from English into Latin.

GREEK.—Xenophon, *Memorabilia*, Book II. The Gospel according to John.

LOGIC.—Jevons, *Elementary Lessons in Logic*.

MORAL PHILOSOPHY.—Sidgwick, *Outlines of the History of Ethics*—Chapters I., II., and III.

ENGLISH.—Morley, *First Sketch of English Literature*, Chapters IX. and X.

MATHEMATICS.—Euclid, Books I., II., III. Algebra to Quadratic Equations, inclusive.

NATURAL PHILOSOPHY.—Balfour Stewart, *Elementary Physics*, Books I., II., and VII.

The subjects of examination for Prizes Nos. 13 and 14 are the same as for the *Second Department* of the Degree of Bachelor of Divinity.

The subjects of examination for the Prize No. 15 for Session 1890-1 are as follows :—

GREEK.—Matthew xvi. 21—xxviii. 20. Sophocles, *Philoctetes*.

DIVINITY.—Doctrine of Christ's Person and Work. Biblical Theology
—Discourses in Book of Acts and First Epistle of Peter. SIGNIFY

HEBREW.—Genesis i.—xxv. (Text and Exegesis); Isaiah i.—xiv. and
Psalms i.—xviii. (Text, Exegesis, and Introduction).

CHURCH HISTORY.—Reformation of the Sixteenth Century (Switzerland and Scotland).

MORAL PHILOSOPHY,—Ferrier, *Lectures on Greek Philosophy*.

For the subjects of examination for the Fellowship No. 12, see p. 215.

DATES FOR SENDING IN APPLICATIONS.

Candidates for Nos. 1 to 11 inclusive, and for the Prize No. 15 are required to give in their names to the Assistant Clerk (Matriculation Office) not later than 4th November, 1890; for the Fellowship No. 12, and for the Prizes Nos. 13 and 14, not later than 1st April, 1891; and for the Prizes Nos. 16 and 17, to the Professor of Divinity not later than 20th March, 1891.

C.—FACULTY OF LAW.

Merchant's House Bursary, annual value £25, tenable for three years. Open to students entering on their first session of attendance on the classes in the Faculty of Law.

Names of Competitors to be given in to Assistant Clerk (Matriculation Office) not later than Tuesday, 21st October.

The Examinations will be held on Tuesday, 28th October, and three following days, commencing at 10 A.M. each day.

Andrew Cunninghame Scholarship, annual value about £32, tenable for two years, will be awarded in November, 1890, to the most distinguished Bachelor of Laws of the year, special consideration being given to eminence in Conveyancing.

For the Armagh and the James Ferguson Bursaries, see Nos. 73 and 54 under Faculty of Arts.

D.—FACULTY OF MEDICINE.

1 and 2. *Two Lorimer Bursaries*, each of the annual value of £20, tenable for three years, open to medical students entering on their second session.

3. *Macfarlane Bursary*, annual value about £40, tenable for three years, open to medical students entering on their second session.

4. *Rainy Bursary*, annual value £20, tenable for two years, open to students entering on their third session of medical study.

5. *Mackintosh Bursary*, annual value about £30, tenable for one year, open to medical students who have attended the Lectures on Insanity.

6. *John Monteith Bursary*, annual value about £20, tenable for two years, will be awarded in November to the student who gains the highest number of marks in Anatomy and Physiology in April and October, 1890.

7. *Andrew Weir Bursary*, annual value £18, tenable for one year, will be awarded in November in accordance with results of Second and Third Professional Examinations.

8. *Robert Donaldson Scholarship* in Biology, annual value about £62, open to students who have taken the degree of B.Sc. in Glasgow University.

9. *Junior Arnott Prize*, of about £15, for an examination in General Physics, open to students of the first and second years of their medical studies.

10. *Senior Arnott Prize* of £25, for an examination in Physiological Physics, open to students of the third and fourth years of their medical studies.

11. *Brunton Memorial Prize* of about £10 is given to the most distinguished graduate in medicine of the year.

DATES OF EXAMINATIONS.

The Examinations for the Bursaries Nos. 1 to 4 in the above list will be held on Monday and Tuesday, 6th and 7th October, at ten A.M. each day; and for the Prizes Nos. 9 and 10, on Saturday, 8th November, at two P.M. The date of the Examination for No. 5 will be afterwards announced.

DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursaries Nos. 1 to 5 are required to give in their names to the Assistant Clerk (Matriculation Office) not later than 18th September; and for Scholarship No. 8 and Prizes 9 and 10, not later than 1st October.

5.—UNIVERSITY PRIZE ESSAYS.

FOR SESSION 1890-91.

1. IN THEOLOGY, the CLELAND GOLD MEDAL, for the Best Essay on "The Didaché: its origin and bearing on the doctrine and government of the early Church." All Students of Divinity in Session 1889-90, or Session 1890-91, may be Competitors.

2. IN MENTAL PHILOSOPHY, the UNIVERSITY SILVER MEDAL, for the Best Essay on "Plotinus, and his Influence upon the Philosophy of his Age." All Students of the Classes of Logic, Moral Philosophy, or English Literature, in Session 1889-90, or 1890-91 may be Competitors.

3. The EWING GOLD MEDAL, for the Best Essay on "Marcus Aurelius." All Matriculated Students of the University in Session 1890-91 may be Competitors.

4. The WATT PRIZE OF TEN POUNDS, for an Experimental Determination of Thermal Conductivities of Metals. For the Watt Prize all Matriculated Students of the University in Session 1890-91, who have finished, or who, on the 1st of May, 1891, shall finish a regular course of Languages and Philosophy, may be Competitors. [Essays may be given in as late as 7th March, 1891.]

5. A COULTER PRIZE OF FIVE POUNDS, for the Best Essay on "Jewish and Christian Eschatology."

6. A COULTER PRIZE OF FIVE POUNDS, for the Best English Essay on "Empedocles: his Position in Greek Literature and Philosophy."

For the Coulter Prizes all Matriculated Students of the University in Session 1890-91 may be Competitors.

7. The RAE WILSON GOLD MEDAL, for the Best Essay on "Philo and the Fourth Gospel." All Students attending the Divinity Class in Session 1890-91 may be Competitors.

8. The HENDERSON PRIZE OF TWENTY GUINEAS, for the Best Critical and Exegetical Examination of "Passages in Paul's Epistles bearing on the Sabbath." All Matriculated Students of the University in Session 1890-91 may be Competitors.

9. The DOBBIE-SMITH GOLD MEDAL, for the Best Essay on any subject within the limits of the Science of Botany. The treatment of the subject to show original work, and the Essay to be accompanied by an illustrative series of Macroscopic and Microscopic Specimens.

The Essays, with the exception noted above, must be given in to the Principal, on or before Friday, 14th November, 1890, after which day none can be received. Each must be distinguished by Two Mottoes, and accompanied by a sealed letter bearing on the outside the same Mottoes, and containing a declaration subscribed by the author that the Essay is entirely of his own composition. All quotations in the Essays must be carefully marked, and accurate references to their respective authorities given in the notes. The Senate reserves the power of withholding the Prize for any subject if none of the Essays on that subject reaches a sufficiently high standard of merit.

VIII.—HONOUR LIST.

LIST OF NAMES OF GENTLEMEN WHO HAVE TAKEN DEGREES
WITH HONOURS SINCE THE YEAR 1836.

MASTERS OF ARTS (M.A.)

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1836	John Cunningham,	Scotland,	...	...	I	...
"	William Fulton,	do.,	II	II	..	...
1837	Richard Shaen,	England,	...	...	II	...
"	Thomas E. Richardson,	do.,	...	...	II	...
"	John Blair,	Ireland,	...	...	II	...
"	William Cuthel,	Scotland,	...	...	II	...
1840	Duncan H. Weir,	do.,	...	...	II	...
"	James Thomson,	do.,	...	...	II	...
"	John Buchanan,	do.,	...	...	II	...
1841	John D. Morell,	England,	II	II	...	...
"	William Arthur Jones,	Wales,	II	II	...	...
1842	Alexander Grierson,	Scotland,	...	...	II	...
"	John Davies,	England,	II	II	...	...
1843	Nathaniel Haycroft,	do.,	II	II	...	...
"	John Trafford,	do.,	II	II	...	...
"	David Duff,	Scotland,	...	...	II	...
1844	John Morgan,	do.,	...	...	II	...
"	John Thomson,	do.,	...	...	II	...
"	William T. Ker,	do.,	...	...	II	...
"	Richard Tomlinson,	England,	II	II	...	...
"	David M'Lauchlan,	Scotland,	II	II	...	...
1846	Robert Graham,	do.,	...	...	II	...
1847	William John Steele,	Ireland,	...	...	II	...
"	James Porter,	do.,	...	...	II	...
1848	Adam Milroy,	Scotland,	II	II	...	...
"	Walter D. Jeremy,	England,	II	II	...	...
1849	John Ker,	Scotland,	...	...	I	...
"	George M'Queen,	do.,	...	...	I	...
"	Henry Martyn Barker,	England,	I	I	...	...
"	John Newton Langley,	do.,	I	I	...	...
1850	Alexander Walker,	Scotland,	II	II	...	...
"	Horatio Lindsay Taplin,	England,	II	II	...	..
"	Robt. Masters Theobald,	do.,	II	II	...	...
1851	Carstairs Douglas,	Scotland.	...	...	II	...

			Class of Honours and Department.			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1851	Daniel Davies Jeremy,	England,	II	II	...	...
1852	Thomas Logan,	Scotland,	...	...	II	...
"	James Wylie Johnston,	do.,	II	II	...	...
1853	Chas. Abercromby Smith,	do.,	...	...	I	...
"	William Jack,	do.,	...	...	I	...
"	Edward Gibbs,	England,	I	I	...	...
1856	James Galbraith,	Scotland,	...	...	II	...
"	John Murray,	do.,	...	...	II	...
1857	Joseph D. Everett,	England,	II	II	I	...
"	George M. Grant,	Nova Scotia,	...	I	...	...
"	David Herbert,	Scotland,	...	II	...	...
"	Neil M'Pherson,	do.,	II	II	...	...
1858	William R. Pattison,	do.,	II	II	...	...
"	John Weir,	do.,	...	II	...	...
1859	Robert Whyte,	do.,	...	II	...	...
1860	George Porter,	do.,	II	II	...	...
"	Joseph Gardner,	do.,	...	II	...	...
"	Walter Roberts,	do.,	...	II	...	...
1861	Richard Vary Campbell,	do.,	...	I	...	...
"	Daniel Munro,	do.,	II	...	...	...
"	Peter Sinclair Menzies,	do.,	II	...	...	...
1862	John M'Lean,	do.,	II	II	...	...
"	Thomas Carruthers	do.,	II	II	...	...
"	William Stewart,	do.,	II	II	...	...
"	George Mathieson,	do.,	...	II	...	...
"	Henry W. Bell,	India,	...	II	...	...
"	John Ferguson,	Scotland,	...	...	...	I
1863	David Thomas,	do.,	...	II	...	...
1866	John Mann,	do.,	I	...	...	...
"	John Fergusson,	do.,	...	II	...	...
1867	William E. Grigsby,	England,	II	...	...	...
"	James Smith,	Scotland,	...	...	I	...
"	William Ross,	do.,	...	...	II	...
1868	Robert Stewart,	do.,	...	I	...	...
"	John Wilson,	do.,	...	I	...	...
1869	Favour James Greg,	do.,	...	I	...	...
"	Adam Semple,	do.,	...	I	...	...
"	Joseph Loudon,	do.,	...	...	II	...
"	James M'Intosh,	do.,	...	I	...	...
1870	John Cross,	U.S.A.,	I	I	...	...
"	Matthew M. Dickie,	England,	II	I	...	...
"	James Orr,	Scotland,	...	I	...	...
"	Robert A. Sinclair.	do.,	...	II	...	...
"	James D. H. Dickson,	do.,	...	...	II	...
"	Dugald M'Kichan,	do.,	...	...	II	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1871	William S. Fleck,	Scotland,	...	I	...	...
"	William Oliver,	Wales,	...	II	...	...
"	John E. H. Thomson,	Scotland,	...	II	...	...
"	Colin R. M'Clymont,	do.,	...	I	...	...
"	Charles S. Dickson,	do.,	...	II	II	...
1872	William Hamilton,	do.,	...	I	...	...
"	John Watson,	do.,	...	I	...	...
"	Zachary M. H. Ross,	do.,	...	II	...	...
"	Archibald Russell,	do.,	...	II	...	...
"	William G. Miller,	do.,	...	...	II	...
"	John M. Brown,	do.,	...	I	...	...
"	Alexander S. Macphee,	do.,	...	I	...	...
"	James C. MacTaggart,	do.,	...	...	I	...
"	James Henderson,	do.,	...	...	II	...
1873	William Bathgate,	do.,	I	...	...	...
"	John M'Cunn,	do.,	...	I	...	...
"	T. Lindsay Galloway,	do.,	...	...	I	...
"	David Hunter,	do.,	II	I	...	...
"	Robert Harvey,	do.,	I	...	...	...
"	Thomas H. Miller,	do.,	...	...	I	...
"	Buchanan Blake,	do.,	...	II	...	...
"	James Arthur,	do.,	...	...	II	...
1874	James Bonar,	do.,	I	I	...	...
"	James G. Frazer,	do.,	I	...	...	...
"	Alexander F. Fraser,	do.,	...	I	...	...
"	John Wilson Reid,	do.,	I	...	II	...
"	Colin Campbell,	do.,	II	I	...	...
"	James Thomson,	do.,	...	I	...	...
"	Hugh Hart Currie,	do.,	II	...	...	...
"	James MacKay,	do.,	II	...	...	...
1875	Benj'n F. C. Costelloe,	Ireland,	II	I	...	...
"	William Yuill King,	Scotland,	I	...	...	...
"	William Patrick,	do.,	...	I	...	...
"	John Patrick,	do.,	II	...	...	...
"	James S. Russell,	do.,	...	...	I	...
"	John C. Watt,	do.,	...	...	I	...
"	John B. Douglas,	England,	II	...	...	...
"	Neil D. MacLachlan,	Scotland,	...	II	...	...
"	James Johnston Dobbie,	do.,	...	...	...	I
1876	James Lambie,	do.,	...	I	...	...
"	Ebenezer B. Speirs,	do.,	...	I	...	...
"	Islay F. Burns,	do.,	II	...	...	...
"	Robert MacLehose,	do.,	...	II	...	...
"	Joseph Conn,	do.,	...	...	II	...
"	Robert H. Pinkerton,	do.,	...	...	II	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natura Science
1876	David Wilson,	Scotland,	...	...	II	...
"	John P. Mitchell.	do.,	...	I	...	...
"	William M. Rankin,	do.,	...	I	...	...
"	Andrew Gray,	do.,	...	...	II	...
1877	Wallace M. Lindsay,	do.,	I	II	...	...
"	Alexander S. Wilson,	do.,	...	...	...	I
"	James Kidd,	do.,	...	I	...	...
"	Thomas B. Kilpatrick,	do.,	...	I	...	...
"	Mungo W. M'Callum,	do.,	...	II	...	...
"	William Allan,	do.,	...	...	II	...
"	James Arthur,	do.,	...	...	II	...
1878	Robert Mackintosh,	do.,	II	I	...	...
"	John Edgar,	do.,	I	...	...	...
"	John M. Dodds,	do.,	...	...	I	...
"	David W. Forrest,	do.,	...	II	...	...
"	Alexander Isdale,	do.,	...	I	...	...
"	Lewis A. Muirhead,	do.,	...	I	...	...
"	James Wilson,	do.,	II	...	II	...
1879	John Wilson Marshall,	do.,	I	II	...	...
"	Francis Wm. Clark,	do.,	II	II	...	...
"	Henry Jones,	Wales,	...	I	...	...
"	William T. Bankhead,	Scotland,	...	II	...	...
"	Andrew Rutherford,	do.,	...	II	...	...
"	James Thomson,	Ireland,	...	...	II	...
"	James Denney,	Scotland,	I	I	...	...
"	James Kippen Duff,	do.,	I	...	...	...
"	Robt. Tannahill Younger,	do.,	..	II	...	...
"	William L. Macindoe,	do.,	...	...	II	...
1880	Alexander Gregory,	do.,	II	...	...	...
"	Thomas Gregory,	do.,	I	I	I	...
"	Alexander N. Cumming,	do.,	II	II	...	...
"	Hugh Young Reyburn,	do.,	II	II	...	...
"	John G. A. Dow,	do.,	II	...	...	...
"	John Henderson,	do.,	...	II	...	...
1881	Cecil J. Swan,	do.,	II	...	...	...
"	Francis H. Stead,	England,	II	I	...	...
"	David S. Adam,	Scotland,	...	I	...	...
"	William Granger,	do.,	...	I	...	...
"	Robt. F. Muirhead, B.Sc.,	do.,	...	...	I	...
"	Alexander Russell,	do.,	...	...	I	...
"	Patrick H. Aitken,	do.,	II	...	...	...
"	Alexander Anderson,	do.,	II	...	...	...
"	Robert T. Loudon,	do.,	...	II	...	...
"	Robert Veitch,	England,	...	II	...	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1881	James Maclay,	Scotland,	...	...	II	...
"	John Stuart,	do.,	...	...	II	...
"	James Hamilton,	do.,	...	...	II	...
1882	James A. M'Callum,	do.,	...	I	...	...
"	John H. Fullarton,	do.,	...	...	...	I
"	Charles P. Blair,	do.,	...	II	...	...
"	James M. Dodds,	do.,	I	...	...	...
"	John S. MacKenzie,	do.,	...	I	...	...
"	William Smart,	do.,	...	I	...	...
"	John Weir,	do.,	...	...	I	...
"	John Gray,	do.,	...	II	...	...
"	Charles Steele,	do.,	...	II	...	...
1883	John Aitken Orr,	do.,	...	I	...	...
"	Alexander Robinson,	do.,	...	II	...	...
"	Lewis Hughes,	Wales,	...	II	...	...
"	Francis Anderson,	Scotland,	...	I	...	...
"	Wm. S. M'Kechnie,	do.,	...	I	...	...
"	William Muir,	do.,	...	I	...	...
"	James W. Inglis,	do.,	II	...	...	...
"	Patrick H. Hutchinson,	Ireland,	II	...	...	...
"	Robert A. Moody,	Scotland,	II	...	...	...
"	William T. Mitchell,	do.,	...	...	II	...
1884	Andrew A. Mitchell,	do.,	I	...	...	...
"	James M'Millan,	do.,	I	...	...	...
"	Archd. S. Laidlaw,	do.,	...	I	...	...
"	John Mack,	do.,	...	...	I	...
"	William Clark,	do.,	II	...	...	...
"	John Struthers,	do.,	II	I	...	...
"	Archibald M'Laren,	do.,	I	...	...	...
"	John Adams,	do.,	...	I	...	...
"	James Barr,	do.,	...	I	...	...
"	Gavin Lambie,	do.,	...	I	...	...
"	Robert M. Wenley,	do.,	...	I	...	...
"	George G. Henderson,	do.,	...	...	...	I
"	Campbell N. Moody,	do.,	II	II	...	...
"	Hugh Stevenson,	do.,	...	II	...	...
"	James Strachan,	do.,	...	...	II	...
"	Alex. B. Symington,	do.,	II	...	...	...
1885	John Lee,	do.,	I	...	...	...
"	James Buchanan,	do.,	...	...	I	...
"	Norman Fraser,	do.,	...	...	I	...
"	James P. M'Laren,	do.,	II	...	...	...
"	William Binnie,	do.,	...	II	...	...
"	David Frew,	do.,	...	II	...	...
"	Richard Glaister,	do.,	...	II	...	...
"	David Houston,	do.,	...	II	...	...

			<i>Class of Honours and Department.</i>			
			Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1885	Walter Wingate,	Scotland,	...	...	II	...
..	William M. Mackay,	do.,	...	I	...	...
..	Andrew F. Smith,	do.,	..	I	...	...
..	Alex. L. Watson,	do.,	II	...	...	...
..	Archibald J. Macnicol,	do.,	...	...	II	...
1886	Charles F. Fleming,	England,	...	I	...	...
..	Wellstood A. Watt,	Scotland,	...	I	...	...
..	John Dougall,	do.,	...	...	I	...
..	John M'Cowan, B.Sc.,	do.,	...	...	I	...
..	William H. Carslaw,	do.,	...	...	II	...
..	Magnus M'Lean,	do.,	...	...	II	...
..	John A. Cramb,	do.,	I	...	...	...
..	Robert A. Duff,	do.,	...	I	...	...
..	William Johnston,	do.,	...	II	...	...
..	James Macmillan,	do.,	...	...	II	...
..	Robert A. Nicolson,	do.,	...	...	II	...
1887	James Finlayson,	do.,	...	...	II	...
..	James Gifford,	do.,	...	II	...	...
..	Charles Mackay Gordon,	W. Indies	...	I	...	...
..	David Smith,	Scotland,	I	...	...	...
..	John Watson Bryson,	do.,	...	I	...	...
..	Robert Gardner,	do.,	...	II	...	...
..	James Gilfillan,	do.,	...	I	...	...
..	Daniel Kirkwood,	do.,	...	II	...	...
..	Alexander Lucas Taylor,	do.,	II	...	...	...
..	John Thomson,	do.,	...	...	II	...
1888	John Esslemont Adams,	do.,	II	...	...	...
..	Archibald Lamont,	do.,	...	II	...	...
..	Arthur David Millar,	do.,	I	...	...	...
..	John Dickson Sinclair,	do.,	...	II	...	...
..	Evan Keri Evans,	Wales,	...	I	...	...
..	Robert Kennedy, B.Sc.,	Scotland,	...	...	...	I
..	John Liddle King,	do.,	...	II	...	...
..	Malcolm Macnicol,	do.,	...	...	II	...
..	Ernest Findlay Scott,	England,	I	I	...	...
..	Robert Scrymgeour,	Scotland,	...	I	...	...
..	Robert Reid Strachan,	do.,	...	II	...	...
..	John Cunningham Walker,	do.,	...	II	...	...
1889	Norman de Garis Davies,	England,	...	II	...	...
..	George Davidson Kempt,	Scotland,	...	II	...	...
..	Alfred Ernest Garvie,	Poland,	...	I	...	...
..	John Hunter Harley,	Scotland,	...	I	...	...
..	John Brownlee,	do.,	...	...	I	...
1890	James Fairlie Gemmill,	do.,	I	...	...	...
..	John Edgar M'Fadyen,	do.,	I	...	...	...
..	James Robertson Cameron,	do.,	...	I	...	...
..	James Moffatt,	do.,	II	...	...	...
..	James Peter Wilson,	do.,	II	...	...	...
..	John Easton Black,	do.,	...	II	...	...

BACHELORS OF SCIENCE (B.Sc.).

		Class of Honours and Department.			
		Classics.	Mental Philosophy.	Mathematics & Nat. Phil.	Natural Science.
1879	Robert F. Muirhead, C.E., Scot.,			II	
1882	John Cleland, C.E., Scotland,			II	
1883	John M'Cowan, C.E., „			II	
1884	William Weir, „			II	
„	James C. Todd, „			II	
1887	Laurence Crawford, „			I	
„	Angus M'Lean, „			II	
1890	James Stanley Muir, „				Chemistry.
„	Robert Watson Smith, „				„

BACHELORS OF ARTS (B.A.).

			Classics.	Mental Philosophy.
1838	William Makellar, Scotland,.....		II	...
„	Francis Tucker, England,.....		II	...
1852	Samuel Crusha Sarjant, do.,		I	I
1856	David Johnston, do., .....		...	II
1857	Andrew Moody, Scotland,.....		...	II
„	William T. Johnston, do.,		I	...
1858	John MacLeod, do., .....		...	I
1861	Thomas Robinson, England,.....		...	II

DOCTORS OF MEDICINE (M.D.). (O. R.) HONOURS.

1845	Alexander Lindsay, Scotland.	1853	Richard Stanistreet, Ireland.
„	James Craigie Murray, do.	„	David Knox, do.
„	Francis Reynolds, Ireland.	1854	John Lindsay Stewart, Scotland.
„	John Brown, Scotland.	„	James Fraser Paton, do.
„	John Gardiner, do.	„	David Easton, Ireland.
„	Donald Cameron, Isle of Man.	1855	William Leishman, Scotland.
„	Adam Nicholson, Scotland.	„	William J. Lewis, New Brunswick.
„	John Duke, Ireland.	„	Alexander Robertson, Scotland.
1847	William Parry, Wales.	1857	Thomas Beaumont, Ireland.
„	Robert Livingstone, Scotland.	„	Joseph M. Fleming, Scotland.
„	Alexander B. Sharpe, Scotland.	„	Maxwell Rodgers, Ireland.
1848	Charles H. Hitchen, England.	1858	John Couper, Scotland.
„	James Steven, Scotland.	„	Thomas M'Call Anderson, do.
„	John Coates, Ireland.	1859	Daniel Dougal, do.
1849	Robt. Brown M'Clelland, Ireland.	1861	William Marshall, America.
„	Thomas Nicholson, Scotland.	„	John M. Murray, Scotland.
„	Robert Settle, England.	1862	James A. Allan, do.
„	Richard Thomas Tracy, Ireland.	1863	Robert M'K. Duncan, do.
„	Matthew John Rae, Scotland.	„	George M'Donald, do.
1850	John Ternan, Ireland.	„	Samuel J. Moore, Ireland.
„	John Henry Eddowes, England.	„	William Fraser, Nova Scotia.
„	James Brash, Scotland.	„	T. Algernon Chapman, Scotland.
1851	Alexander Marshall, do.	„	Algernon Wood Smith, do.
„	Andrew Spearing, Ireland.	„	John P. Atkinson, England.
„	James B. Montgomery, England.	1864	John Wyber, Scotland.
„	Robert Perry, Scotland.	„	J. G. Wilson, M.A., do.
„	John Watson, B.A., do.	1865	Arthur A. Jamieson, England.
1853	John Ritchie Brown, do.	1867	Fred. H. Quaife, M.A. Sydney, N.S.W.
„	Charles D. Campbell, Ireland.		

DOCTORS OF MEDICINE (M.D.). (*N.R.*)

COMMENDED FOR THESIS.

1876. Gardner, William, M.B., England.
1877. Turner, William Y., M.B., Scotland. Thesis, "The Ethnology of the Motu."
1879. Fleming, William James, M.B., Scotland. Thesis, "The Dicrotic Notch in Pulse Tracings."
1880. Oliver, Thomas, M.B., Scotland. Thesis, "Heredity viewed in its relation to Responsibility."
1880. Bryce, James, M.B., Scotland. Thesis, "That Mankind originated as a Common Family—most probably on a Continent in the Indian Ocean—certainly within the Tropics."
1881. Adams, James Alexander, M.B., Scotland. Thesis, "Anatomical Relation between Abscess of Brain and Aural Disease."
1881. Stewart, Alexander, M.B., Scotland. Thesis, "History of a Personal Attack of Typhoid Fever."
1881. Drummond, James, M.B., Scotland. Thesis, "Sea Sickness: its Etiology, Symptoms, and Treatment."
1881. Macphail, Donald, M.B., Scotland. Thesis, "Chemical Investigations on the Degenerative Changes in Diseased Bone."
1882. Cairns, David, M.B. Thesis, "An Outbreak of Pyæmia."
1882. Adam, Thomas Bate, M.B., Scotland. Thesis, "The Pathology and Etiology of Elephantoid Disease."
1882. Rankin, Guthrie, M.B., Scotland. Thesis, "Puerperal Fever."
1883. Inglis, David Wood, M.A., M.B., Scotland. Thesis, "On the Prevention of Lead Poisoning among Workers in White Lead Factories."
1883. Newman, David, M.B., Scotland. Thesis, "Displacements of the Kidney."
1884. Lawrie, J. Macpherson, M.B., Scotland. Thesis, "On some Symptoms of Locomotor Ataxy."
1884. Allan, Robert, M.B., Scotland. Thesis, "Dermoid Cysts."
1884. Middleton, George S., M.A., M.B., Scotland. Thesis, "On the Pathology of Pseudo-Hypertrophic Muscular Paralysis."
1884. Steven, John Lindsay, M.B., Scotland. Thesis, "The Pathology of Suppurative Inflammations of the Kidneys."
1885. Mackay, John Yule, M.B., Scotland. Thesis, "The Origin and Development of the Larger Arteries."
1885. Macvie, William, M.B., Scotland. Thesis, "Atrophic Infantile Paralysis."
1885. Dougal, James, M.B., Scotland. Thesis, "Puerperal Pyrexia."
1886. Lawrie, William John, M.B., Scotland. Thesis, "Pathological Formations of the Skin."
1886. Somerville, William Francis, M.A., B.Sc., M.B., Scotland. Thesis, "Urosemiotic; the Pathological Chemistry of the Urine, the complete Quantitative Analysis of the Urine; a valuable aid to Clinical Diagnosis."
1886. Stewart, Robert Sloss, M.B., Scotland. Thesis, "Observations on the Spinal Cord in the Insane."
1886. Rankin, Alexander, M.B., Scotland. Thesis, "Cerebral Cases, with remarks."
1886. Auld, Alexander Gunn, M.B., Scotland. Thesis, "Studies in Materia Medica."
1887. Chalmers, Archibald Kerr, M.B., Scotland. Thesis, "The Temperature Curve of Specific Fevers."
1887. Neilson, Henry John, M.B., Scotland. Thesis, "On the observation of the pupil as a guide in the administration of Chloroform."
1887. Brown, John, M.B., Scotland. Thesis, "Maternal Impressions."
1887. Love, John, M.B., Scotland. Thesis, "Three cases of Cortical Epilepsy considered in relation to the localization of the discharging lesion."

1888. Finlay, David, M.B., Scotland. Thesis, "Clinical Observations on Epileptic Insanity."
 1888. Love, James Kerr, M.B., Scotland. Thesis, "The Limits of Hearing."
 1888. Macpherson, Charles, M.B., Scotland. Thesis, "Plural Pregnancies."
 1888. Wallace, William, M.B., Scotland. Thesis, "The Field of Vision: with special reference to its Anomalies in Diseases of the Nervous System."
 1889. Kelly, James Kellock, M.B., Scotland. Thesis, "Private Obstetric Practice: an analysis of 3000 consecutive cases."
 1889. Mackenzie, William James, M.B., India. Thesis, "The effects of the conditions of London Life on the Nervous System: with remarks on the treatment."
 1889. Hinshelwood, James, M.A., M.B., Scotland. Thesis, "A Clinical Study of Syphilitic Diseases of the Nervous System."
 1890. Anderson, John Alexander, M.B., Scotland. Thesis, "On Tetanus: with a record of six cases."

BACHELORS OF MEDICINE (M.B.). HONOURS.

1866	Robert W. Forrest,	Scotland.	1877	Edward D. M. Mackellar,	Scotland.
"	Henry T. Pringle,	do.	1878	Alexander Fraser,	do.
1867	Ebenezer Duncan,	do.	"	James Morton,	do.
"	Joseph Coats,	do.	"	William Partington,	do.
"	James Finlayson,	do.	"	Lawrence A. Waddell,	do.
1868	Thomas Barr,	do.	1879	William K. Peden,	do.
"	William MacLachlan,	do.	"	Ralph D. Stevenson,	Australia.
"	Angus Macmillan,	do.	1880	Andw. A. Hogarth, M.A.,	Scotland.
1869	James Coats,	do.	"	J. M'Gregor-Robertson, M.A.,	do.
1871	David Wilkie,	do.	"	John Lindsay Steven,	do.
"	John Aikman,	do.	1881	John More Young, M.A.,	do.
1872	John D. Macdonald,	do.	1882	Robert Beith,	do.
"	Samson Gemmell,	do.	1883	John Innes Dunlop,	do.
1876	Geo. S. Middleton, M.A.,	do.	1884	Charles O. Hawthorne,	England.
"	Richard B. Macpherson,	do.	1886	Alexander Bryce,	Scotland.
1877	Johan B. Knobel,	Africa.	"	Wm. Snodgrass, M.A.,	U.S.A.
"	Donald Macphail,	Scotland.	"	John H. Carslaw, M.A.,	Scotland.
"	John Carlyle Johnstone,	do.	1887	William MacLennan,	do.

BRUNTON MEMORIAL PRIZE OF £10,

Awarded to the most distinguished Graduate in Medicine of the year.

1880. John Lindsay Steven, M.B., C.M.	1885. Andrew Wilson, M.B., C.M.
1881. John More Young, M.A., M.B., C.M.	1886. Alexander Bryce, M.B., C.M.
1882. Robert Beith, M.B., C.M.	1887. William MacLennan, M.B., C.M.
1883. John Innes Dunlop, M.B., C.M.	1888. Landel Rose Oswald, M.B., C.M.
1884. Charles Oliver Hawthorne, M.B., C.M.	1889. William Robert Jack, B.Sc., M.B., C.M.

THOMAS LOGAN MEDAL AND PRIZE.

To the most distinguished Graduate in Arts of the year.

1888. Ernest Findlay Scott, M.A.	1889. Alfred Ernest Garvie, M.A.
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IX.—DEGREE AND PRIZE LIST.

LIST OF DEGREES

CONFERRED IN THE VARIOUS FACULTIES AND OF PRIZES AND
CERTIFICATES OF HONOUR AWARDED IN THE SEVERAL
CLASSES OF THE UNIVERSITY DURING THE YEAR ENDING
1ST MAY, 1890.

DOCTORS OF DIVINITY (D.D.).

Rev. Archibald Henderson, M.A., Free Church, Crieff.
Rev. Frederic Edward Ridgeway, M.A., Incumbent of St. Mary's, Glasgow,
and Dean of the United Diocese of Glasgow and Galloway of the Scottish
Episcopal Church.
Rev. George Robson, M.A., U.P. Church, Inverness.
Rev. Bryce Ross, missionary, Caffraria.
Rev. Adam Semple, B.D., Huntly.
Rev. James Stalker, M.A., Free St. Matthew's Church, Glasgow.
Rev. Edward Litton Thompson, Hamilton.

DOCTORS OF LAWS (LL.D.).

July, 1889.

Joseph Joachim, Mus. Doc. (Oxford and Cambridge), Hochschule für Musik,
Berlin.

April, 1890.

Sir William Arrol, Constructor of the Tay and Forth Bridges.
Peter Denny, shipbuilder and marine engineer, Dumbarton.
John Kirkpatrick, LL.B., Professor of History and Dean of the Faculty of
Law, Edinburgh University.
William Macewen, M.D., Royal Infirmary, Glasgow.
Arthur Palmer, M.A., Professor of Latin, Trinity College, Dublin.
Henry Sweet, M.A., Baliol College, Oxford.

BACHELORS OF DIVINITY (B.D.).

November, 1889.

James Edmond M'Quat, M.A. | Thomas Shanks, M.A.
William White, M.A.

April, 1890.

Peter Adam, M.A.	William Moffat, M.A.
Hugh Armstrong, M.A.	John MacGregor, M.A.
James Cameron, M.A.	David Mackeggie, M.A.
Joseph M'Neill Frazer, M.A.	Robert William Rutherford, M.A.
Robert Gardner, M.A.	William Swan, M.A.
Daniel Kirkwood, M.A.	James Boath Wood, M.A.

BACHELORS OF LAWS (LL.B.).

November, 1889.

Thomas Adam Gentles, M.A.	John Aitken Turnbull, M.A.
Frank Bertram Richardson, M.A.	Wellstood Alexander Watt, M.A.
James Thomson, M.A.	

April, 1890.

James Robertson Christie, M.A.

BACHELORS OF LAW (B.L.).

November, 1889.

Thomas Brown.	William Niven.
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April, 1890.

William Hutchison, M.A.	James Robertson.
John MacIntyre.	John Tennent.

DOCTORS OF MEDICINE (M.D.).

July, 1889.

I.—COMMENDED FOR THESES.

- James Kellock Kelly, M.B., C.M., Scotland (Thesis—"Private Obstetric Practice : an Analysis of 3900 consecutive Cases.").
- William James Mackenzie, M.B., C.M., India (Thesis—"The effects of the conditions of London Life on the Nervous System : with Remarks on the Treatment.").

II.—ORDINARY DEGREE.

- William Huntly, M.A., B.Sc., M.B., C.M., Scotland (Thesis—"Investigation into the Habits and Diet of the Natives of Rajputana, with reference to the Etiology and Treatment of Rickets.").
- Creighton Hutchinson, M.B., C.M., Ireland (Thesis—"Sea-Sickness.").
- Thomas Wilson Jenkins, M.A., M.B., C.M., Scotland (Thesis—"Chorea.").
- Alexander Johnston, M.B., C.M., Scotland (Thesis—"The Pathology and Therapeutics of Acute Rheumatism : with special reference to the relative advantages of the different Salicyl Compounds.").
- Henry Ward Beecher Monteagle, M.B., C.M., Scotland (Thesis—"Hysteria, in some of its Clinical Aspects.").
- John Francis Macgregor, M.B., C.M., Scotland (Thesis—"Puerperal Pyaemia.").
- James Oastler, M.B., C.M., Scotland (Thesis—"Remarks on the unequal distribution of Cancer.").
- James Alexander Wilson, M.B., C.M., Scotland (Thesis—"The Etiology of Congenital Talipes.").

November, 1889.

I.—COMMENDED FOR THESIS.

- James Hinshelwood, M.A., M.B., C.M., Scotland (Thesis—"A Clinical Study of Syphilitic Diseases of the Nervous System.").

II.—ORDINARY DEGREE.

- Robert Crawford, M.B., C.M., Scotland (Thesis—"Observations on cases of some Surgical Affections in the Ischio-Rectal Fossa.").
- Archibald Nicol Montgomery, M.B., C.M., Scotland (Thesis—"Internal Hæmorrhage : its treatment.").
- John Thomson Prangnell, M.B., C.M., Scotland (Thesis—"Endocarditis.").
- John Wyllie, M.B., C.M., England (Thesis—"Alcohol : As a Remedy, and as a Cause of Disease.").

April, 1890.

I.—COMMENDED FOR THESIS.

John Alexander Anderson, M.B., C.M., Scotland (Thesis—"On Tetanus: with a record of six cases.").

II.—ORDINARY DEGREE.

John Maxwell Davidson, M.B., C.M., Scotland (Thesis—"Notes on nine hundred consecutive cases of Midwifery.").

Alexander Macintyre, M.B., C.M., Scotland (Thesis—"Results of eleven years' experience in the General Practice of Midwifery epitomized and tabulated, with remarks.").

Alexander McKechnie, M.B., C.M., Scotland (Thesis—"The non-prevalence of Phthisis Pulmonalis in the Hebrides.").

Robert Macpherson, M.B., C.M., Scotland (Thesis—"Puerperal Fever: an Essay in Practical Medicine.").

BACHELORS OF MEDICINE AND MASTERS IN SURGERY (M.B. AND C.M.)

July, 1889.

I. HIGH COMMENDATION.

1. * William Robert Jack, B.Sc., Scotland.
2. James Merry Macphail, M.A., England.
3. Oswald Rees, ,,

II. COMMENDATION.

- | | | | |
|--------------------------------|----------|------------------------------|----------|
| 1. Andrew Moyes, | Scotland | 6. Alex. C. Farquharson, | Scotland |
| 2. Robert Broom, B.Sc., | ,, | 7. Robert Gilbert Inglis, | ,, |
| 3. Archibald Fairlie, M.A., | ,, | 8. Wm. McGregor Young, M.A., | ,, |
| 4. John Robertson, M.A., | ,, | 9. Alexander Prentice, | ,, |
| 5. Robt. Hillhouse Adam, M.A., | ,, | 10. Thomas Houston Jackson, | ,, |

III. ORDINARY DEGREE OF M.B. AND C.M.

- | | | | |
|--------------------------------|----------|---------------------------|----------|
| J. B. McK. Anderson, M.A., | Scotland | James Alexander Gentle, | Scotland |
| James Grant Andrew, | ,, | Henry Wernicke Gentles, | ,, |
| John Baird, | ,, | James Gilroy, | ,, |
| William George Barras, | ,, | George Gordon, | ,, |
| James Bauchop, | ,, | David Craigie Gray, | ,, |
| Thomas Kerr Bell, | ,, | Walter Groome, | England |
| Thomas Dun Bertram, | ,, | Charles Henry Hallett, | ,, |
| John Thomson Biernacki, | India | Robert Taylor Halliday, | Scotland |
| John Cunningham Bowie, | Scotland | John Hardie, | ,, |
| John Brown, | ,, | Frederick Hare, | England |
| John Richmond Bryce, | ,, | Cornelius Hope, | Scotland |
| William Bryce, | ,, | John Coulson Howie, M.A., | ,, |
| William Cairns, | ,, | James Hudson, | ,, |
| Robert Calderwood, | ,, | William Hutchinson, | Ireland |
| John Angus Cameron, | ,, | Robert Jamieson, | Scotland |
| John Clarke, | England | John Gilmour Kerr, | ,, |
| John Crawford, | Scotland | Thomas Brough Law, | ,, |
| John Cunningham, | ,, | Charles Alfred Lewis, | ,, |
| Joseph Henry Dickson, | England | James Lloyd, | Wales |
| Thomas Fleming, | Scotland | James Livingstone Loudon, | Scotland |
| Alexander Rodger Fraser, M.A., | ,, | George Mathieson, | ,, |

* Mr. Jack gained the Bampton Memorial Prize of Ten Pounds, awarded to the most distinguished Medical Graduate of the year (1889).

Robert Miller, M.A.,	Scotland	Arthur Alfred Pratt,	England
Andrew Ronald Mitchell,	„	John Semple Rankin,	Scotland
Joseph Bateman Morton,	„	Ferdinand Rees,	England
James Miller Mackay Muir,	„	Dugald Revie,	Scotland
William Murray,	„	John Rowan,	„
Colin M'Culloch Macaulay, M.A.,	„	James Smith,	„
Roderick Campbell Macdiarmid,	„	Robert Steel, M.A.,	„
George Godfrey Macdonald,	England	George Steele,	„
John Macdonald,	Scotland	Paul Stewart,	„
Daniel M'Dougall,	„	William Stewart,	„
Patrick Fraser Macgregor,	„	John Cockburn Syson,	„
Robert M'Lay,	„	Andrew Stewart Tindal,	„
Robert Alexander M'Lay,	„	James Wilson Wallace,	„
Joshua Buchanan M'Lean,	„	W. Riddell Kemlo Watson, M.A.,	„
Daniel M'Nicol,	„	Alexander Watt,	„
William Arnot Parker,	„	Robert Weir,	„
William Rankine Paton,	„	John Wotherspoon,	„
Alexander Patterson,	„	Richard John Wylie,	India

October, 1889.

Leslie Buchanan, Ireland

November, 1889.

I. COMMENDATION.

Anthony M'Call, Scotland

II. ORDINARY DEGREES OF M.B. AND C.M.

James Findlay,	Scotland	John Thomas Brown Laverick,	England
Joseph Newbigging Glaister,	„	Robert F. Macarthur, M.A.,	Scotland
John Gilchrist Gray,	„	Thomas Russell,	„
Thomas Arthur Haig,	„	Hugh George Stewart,	„
Charles Archibald Henderson,	India	Arthur William Taylor,	England
Andrew Biggam Houstoun,	Scotland	William Millar Wilson,	Scotland

December, 1889.

Thomas Connell Craig, Scotland

Archibald Donald, „
William Robert Muir, „

January, 1890.

James Caskie, Scotland
James Gilchrist, „

February, 1890.

I. COMMENDATION.

John M'Kie, Scotland

II. ORDINARY DEGREES OF M.B. AND C.M.

Isaac Fletcher, England

April, 1890.

Arthur Arnold Beale, England

DIPLOMA IN PUBLIC HEALTH.

Robert H. Adam, M.A., M.B., C.M.	John T. Brown Laverick, M.B., C.M.
James Grant Andrew, M.B., C.M.	William Boog Leishman, M.B., C.M.
John Banks, M.B., C.M.	Charles Alfred Lewis, M.B., C.M.
William George Barras, M.B., C.M.	Joseph Bateman Morton, M.B., C.M.
Thomas Kerr Bell, M.B., C.M.	Andrew Moyes, M.B., C.M.
John Cunningham Bowie, M.B., C.M.	Donald Munro, M.D., C.M.
Robert Broom, B.Sc., M.B., C.M.	C. M'C. Macaulay, M.A., M.B., C.M.
John Brown, M.B., C.M.	Charles M'Bride, M.B., C.M., M.D.
John Richmond Bryce, M.B., C.M.	Roderick C. Macdiarmid, M.B., C.M.
Leslie Buchanan, M.B., C.M.	John Macdonald, M.B., C.M.
Robert Calderwood, M.B., C.M.	Patrick F. Macgregor, M.B., C.M.
James Wilson Cameron, M.B., C.M.	Robert Alexander M'Lay, M.B., C.M.
J. Maccallum Cameron, M.B., C.M.	Joshua B. M'Lean, M.B., C.M.
James Caskie, M.B., C.M.	Alexander Patterson, M.B., C.M.
John Clarke, M.B., C.M.	Joseph Peake, L.F.P.S.G., L.S.A.
Archibald Donald, M.B., C.M.	Robert Steven Penman, M.B., C.M.
Archibald Fairlie, M.A., M.B., C.M.	Walter Sandeman, M.B., C.M.
Isaac Fletcher, M.B., C.M.	Robert Steel, M.A., M.B., C.M.
John Glen, M.B., C.M.	William Stewart, M.B., C.M.
William Hutchinson, M.B., C.M.	Andrew Stewart Tindal, M.B., C.M.
Hugh Jones, M.B., C.M.	John Wotherspoon, M.B., C.M.

MASTERS OF ARTS (M.A.).

July, 1889.

George Porteous, Scotland.

November, 1889.

I. WITH HONOURS.

With First Class Honours in Mental Philosophy.

* Alfred Ernest Garvie. | John Hunter Harley.

With First Class Honours in Mathematics and Natural Philosophy.

John Brownlee.

II. ORDINARY DEGREE.

James Adam.	John Lindsay.
James King Barr.	Thomas Miller Lovell.
James Pearson Brown.	James Mair.
Adam Chaillie Bruce.	James Donald Rae Monro.
Donald Cameron.	James M'Lean.
James Campsie.	Andrew M'Nab.
Benjamin George Cormack, B.Sc.	John Macphail.
John Cuthbertson.	George Scobie Rae.
Alexander Dingwall.	William George Robertson.
Robert Fulton.	John Alexander Grant Robinson.
James Home Grant.	John Selkirk.
Edward Hewitt.	Lennox Morrisson Sellar.
John Hopkins.	Alexander Morris Stewart.
Peter Hutchison.	William Swan.
Alfred Johnston.	John James Thomson.
Alexander Johnstone.	William Thomson.
Abraham Levine.	Archibald Adam Warden.

* Mr. Garvie gained the Thomas Logan Medal and Prize, awarded to the most distinguished Graduate in Arts of the year (1889).

April, 1890.

I. WITH HONOURS.

With First Class Honours in Classics.

James Fairlie Gemmill. | John Edgar M'Fadyen.

With First Class Honours in Mental Philosophy.

James Robertson Cameron.

With Second Class Honours in Classics.

James Moffatt. | James Peter Wilson.

With Second Class Honours in Mental Philosophy.

John Easton Black.

II. ORDINARY DEGREE.

Robert Rankine Agnew.	William Kirk.
James Aiken.	David Landsborough.
Robert Aird.	John Lewars.
James Aitken.	Gavin Hamilton Martin.
John Dunn Allison.	Alexander Patrick Melville.
Hugh Young Arnott.	James Muir.
Samuel Westwood Ballardie.	John Macara.
Francis James Barker.	Robert M'Connachie.
Malcolm M'Farlane Baxter.	Donald M'Donald (Uist).
David Bayne.	Gavin Parker Macdonald.
James Montgomery Binnie.	Robert Macgregor.
John Ross Blackwood.	John Alexander M'Innes.
David Blair.	John Buchanan Mackenzie.
William Stevenson Brownlee.	Donald M'Kinven.
John Bryce.	John MacLeod.
Andrew Murray Burdon.	John Irvine M'Millan.
Matthew Brown Cameron.	Robert Lamond Macnie.
James Canipbell.	Ebenezer Brown Hill Macpherson.
Thomas Cassels.	Robert John Paul.
Robert Corbett.	James Potts.
Matthew Scott Dickson.	Henry Robertson.
George Duncan.	James Currie Robertson.
Robert Edgar.	James Ross.
Alexander Brown Fisher.	John Murdoch Ebenezer Ross.
John Forsyth.	David Merry Simpson.
Sinon Fraser.	Alexander Smith.
Andrew Gentles.	Allan MacGregor Smith.
David Hedley Gillan.	John Owen Stafford.
John Gillan.	Andrew Struthers.
Archibald Gilchrist Hay.	Peter Taylor Thomson.
William Hay.	Robert Venters.
Archibald James Hood.	Gavin Warnock.
Norman M'Leod Hunter.	Albert Taylor Watt.
William Kilpatrick Hutton.	Daniel Wright.
Robert Thom Jack.	Frank Stanley Young.
Walter Jardine.	William Ross Young.

DOCTORS OF SCIENCE (D.Sc.).

Professor Archibald Barr, B.Sc.
Henry Dyer, M.A., B.Sc.

David Forsyth, M.A., B.Sc.
Geo. Gerald Henderson, M.A., B.Sc.

BACHELORS OF SCIENCE (B.Sc.).

November, 1889.

IN BIOLOGICAL SCIENCE.

John Fulton Barr.

IN GEOLOGICAL SCIENCE.

James Craig, M.A.

IN ENGINEERING SCIENCE.

Robert Duncan Barclay.
 Thomas Albert Briggs Carver.
 George Lean Hutchison.

Ernest Robert Johnston.
 John Henry Tudsbery Turner.
 Archibald Scott Younger.

April, 1890.

I. WITH HONOURS.

With Honours in Chemistry—

IN PHYSICAL SCIENCE.

James Stanley Muir.

Robert Watson Smith.

II. ORDINARY DEGREE.

IN BIOLOGICAL SCIENCE.

John Sinclair Boag, M.A.

IN GEOLOGICAL SCIENCE.

Peter Thomson.

IN ENGINEERING SCIENCE.

James Miller.

Frank Brown Smith.

William Temple M'Queen.

Alexander Woodburn.

CERTIFICATES IN ENGINEERING SCIENCE.

November, 1889.

Robert Duncan Barclay.
 Thomas Albert Briggs Carver.
 George Lean Hutchison.

Ernest Robert Johnston.
 John Henry Tudsbery Turner.

April, 1890.

James Miller.

William Temple M'Queen.

Alexander Woodburn.

DEPARTMENTAL CERTIFICATES.

I.—FOR DEGREE OF B.D.

FIRST DEPARTMENT—*November, 1889.*

Adam, Peter, M.A.
 Armstrong, Hugh, M.A.
 Cameron, James, M.A.
 Frazer, Joseph M'Neill, M.A.
 Gardner, Robert, M.A.
 Gillison, Henry Tod, M.A.
 Kirkwood, Daniel, M.A.
 Moffat, William, M.A.

M'Ouat, James Edmond, M.A.
 Rutherford, Robert William, M.A.
 Shanks, Thomas, M.A.
 Swan, William.
 Torrance, John, M.A.
 White, William, M.A.
 Wood, James Boath, M.A.

SECOND DEPARTMENT—*April, 1890.*

Adam, Peter, M.A.
 Armstrong, Hugh, M.A.
 Brown, Henry, M.A.
 Cameron, James, M.A.
 Frazer, Joseph M'Neill, M.A.
 Gardner, Robert, M.A.
 Hewitt, Edward, M.A.
 Kirkwood, Daniel, M.A.
 Lang, Marshall Buchanan, M.A.

Littlejohn, John Martin, M.A.
 Moffat, William, M.A.
 MacGregor, John, M.A.
 Mackeggie, David, M.A.
 M'Kinlay, Robert, M.A.
 Rutherford, Robert William, M.A.
 Stormont, David Duncan, M.A.
 Swan, William, M.A.
 Wood, James Boath, M.A.

II. FOR DEGREE OF M.A.

1. IN CLASSICAL LITERATURE.

November, 1889.

Aitken, John Russell
 Allison, David James
 *Anderson, William Carrick
 Barr, James King
 Bater, Claude Hooper
 Boyd, Francis
 Boyd, John Sloan
 Campsie, James
 Carstairs, John Lindley
 Clazy, William Oliver
 Clow, William
 Cochrane, Robert
 Cocker, John Macintosh
 Conochie, Thomas Gillies
 Corbett, Robert
 Cordiner, Alexander
 Craig, Peter L. L.
 Davidson, James
 Dukes, Hugh Robson
 *Duncan, Thomas Morton
 Eaglesham, James
 *Ferguson, Joshua
 Findlay, James Crawford
 Forsyth, John
 Gemmill, James F. (I. Hon.)
 Gillies, John (II. Hon.)
 Hamilton, Alexander Mitchell
 Harley, John Hunter
 Jardine, Walter

*Manford, John M'Ewan
 *Morrow, David Scribner
 Moffatt, James (II. Hon.)
 Morrison, John
 Mushet, John
 Macaulay, Archibald
 M'Callum, Julius F.
 Macdonald, Gavin Parker
 M'Dougall, Neil
 M'Fadyen, John E. (I. Hon.)
 Macgregor, Robert
 M'Innes, Alexander
 M'Kinven, Donald
 *M'Naught, John C.
 Nelson, Adam
 Nicholls, John Ashplant
 Park, James Andrew
 Paton, Frank Hume Lyall
 Primrose, Edward James
 Ross, Murdoch
 Samuel, William
 Shanks, Edwin Arthur
 Simpson, David Merry
 Stewart, David Melville
 Stewart, George Shaw
 Thomson, Peter Donald
 Whyte, Quentin D.
 Young, David

April, 1890.

Agnew, Robert R.
 Aird, Robert
 Boyd, Robert
 Bryce, John
 Burdon, Andrew Murray
 Calderwood, James G.
 Cassels, Thomas
 Connor, John M.
 *Cowan, Hugh
 Craig, John Baillie
 Dodd, Benjamin Herbert
 Edgar, Robert
 Findlay, Walter Scobie
 Fraser, Robert M'Kechnie
 Fraser, Simon
 Harvie, William D.
 *Hutcheson, Charles Whitehead
 Inglis, Thomas Murray
 *John, William

Johnston, Frederick William
 Kemp, Arnold Low
 Lang, Joseph
 Martin, Gavin Hamilton
 Mather, William Maxwell
 Millar, Matthew
 *Moncrieff, Alexander
 Moore, Cecil Elliott
 MacDonald, John
 MacKinnon, Hugh
 Macleod, Donald
 Macleod, John Jas. Holmes
 Macleod, Roderick
 M'Millan, Dugald
 *Macnab, Peter
 Macnaughtan, Joseph
 M'Queen, James
 Paterson, Hamilton Paul
 Paterson, James

*Students whose names are marked with an asterisk distinguished themselves in the Examination.

Paterson, James Charles
 Paterson, James Crawford
 Paterson, William
 Patrick, Andrew M.
 Pattison, Robert
 Potts, James
 Rillie, Robert
 Robertson, Alexander
 Robertson, Henry
 Robertson, James Duncan
 Sadler, Robert William
 *Scott, Samuel

Smith, William S.
 Stalker, George Alexander
 Stevenson, David L.
 Stirling, George
 Stowell, Herbert
 Taylor, Alexander
 Wallace, Andrew Ewing
 Wallace, James
 Wardrop, Thomas
 Wilson, James Peter (II. Hon.)
 Yeomans, Robert

2. IN MENTAL PHILOSOPHY.

November, 1889.

Adam, James
 Agnew, Robert R.
 Black, John Easton (II. Hon.)
 Brown, James P.
 Brownlee, William S.
 Bruce, Adam C.
 Cameron, Donald
 Campbell, Andrew
 Campbell, James B.
 Carmichael, Hugh
 Cuthbertson, John
 Dingwall, Alexander
 Fisher, Alexander B.
 Francis, Robert
 Garvie, Alfred Ernest (I. Hon.)

Johnston, Alfred
 Lindsay, John
 Lovell, Thomas M.
 Mitchell, William
 Munro, Harry S.
 M'Donald, George
 M'Dougall, Andrew
 M'Innes, John A.
 Mackenzie, John B.
 MacLachlan, John
 Macnie, Robert L.
 Rae, George S.
 Reid, Robert W.
 Sellar, Lennox M.
 Struthers, Andrew

April, 1890.

Aiken, James
 Aitken, James R.
 Allison, John D.
 Arnott, Hugh Y.
 Barnett, Thomas R.
 Barrie, Thomas T.
 Bayne, David
 Beard, Charles B.
 Bennett, Peter
 Binnie, James M.
 Binning, Douglas B.
 Black, Alexander W.
 Blackwood, John R.
 Blenkin, Alfred G.
 Brown, George D.
 Brown, Robert S.
 Cameron, James R. (I. Hon.)
 Carruthers, Alexander
 Carslaw, Horatio S.
 Cook, Thomas
 Corbett, Robert
 Crombie, Henry

Donald, George
 Douglas, Robert Baillie
 Douglas, Robert Bulloch
 Duncan, George
 Forfar, Alexander
 Forsyth, John
 Fullarton, James
 Gellatly, James
 Gemmell, John
 Gemmill, James F.
 Gillan, David H.
 Gillan, John
 Gray, James H.
 Hay, Archibald G.
 Hay, William
 Holm, Alexander
 Horne, Robert S.
 Hunter, John
 Hutton, William K.
 Jardine, Walter
 Kerr, William R.
 Kirk, William

* Students whose names are marked with an asterisk distinguished themselves in the Examination.

Knight, George A. F.
 Landsborough, David
 Lewars, John
 Loudon, Robert H.
 Melville, Alexander P.
 Millar, Edward
 Miller, John Harry
 Moffatt, James
 Muir, James
 Murray, Thomas H.
 M'Allister, Andrew
 M'Callum, Julius F.
 M'Connachie, Robert
 MacDonald, Donald (Uist)
 Macdonald, Donald (Tiree)
 Macdonald, Gavin P.
 M'Fadyen, John E.
 Macgregor, Robert
 M'Innes, Alexander
 M'Kinven, Donald
 M'Lean, Archibald
 Macmillan, John
 Macnicol, Nicholas
 Macpherson, Ebenezer B. H.
 Macrae, Angus F.
 Paterson, John

Paul, Robert J.
 Pinkerton, Peter
 Pollock, Alexander
 Reid, Thomas
 Robertson, James C.
 Robinson, John
 Ross, James
 Ross, John M. E.
 Scott, David R. W.
 Scrimgeour, Charles
 Shannon, William H.
 Simpson, David M.
 Smith, Allan M.
 Smith, Walter
 Smith, William S.
 Stafford, John O.
 Stewart, Robert A.
 Stewart, William
 Taylor, Robert Bruce
 Thomson, Peter T.
 Trotter, William
 Venters, Robert
 Watt, Albert T.
 Wilson, James P.
 Wright, Daniel
 Young, Frank S.

3. IN MATHEMATICS AND NATURAL PHILOSOPHY.

November, 1889.

Allardyce, John M.
 Boyd, Robert Lohore
 Brownlee, John (I. Hon.)
 Cameron, Donald
 Dingwall, Alexander
 Fulton, Robert
 Gentles, Andrew
 Grant, James Home
 Hardie, Robert
 Harvey, Thomas
 Hay, Archibald G.
 Hewitt, Edward
 Holm, James
 Hopkins, John
 Hutchison, Peter
 Johnstone, Alexander
 Lovell, Thomas M.
 Mair, James

Metcalfe, William
 Millar, John
 M'Lean, James
 M'Millan, John
 M'Nab, Andrew
 Nelson, William
 Reid, James William
 Robertson, William G.
 Robinson, John A. G.
 Ronald, John
 Ross, James
 Selkirk, John
 Sellar, Lennox M.
 Stafford, John O.
 Stewart, Alexander
 Stewart, Alex. Morris
 Struthers, Andrew
 Thomson, John James

April, 1890.

Aiken, James
 Aitken, James
 Allison, John Dunn
 Anderson, John
 Arnott, Hugh Young
 Baird, David
 Barker, Francis J.

Barr, Robert
 Bartholomew, John
 Bater, Claude Hooper
 Baxter, Malcolm M.
 Bayne, David
 Binnie, James Montgomery
 Black, John Easton

Blackwood, John R.
 Blair, David
 Brown, George D.
 Brownlee, William Stevenson
 Campbell, James
 Campbell, James Black
 Campbell, Walter A.
 Connor, David
 Cowan, Hugh
 Creighton, William Davidson
 Douglas, Charles
 Duncan, George
 Edwards, John
 Ferguson, Joshua
 Fisher, Alexander B.
 Fraser, Donald
 Fullarton, James
 Gemmill, James Fairlie
 Gillan, John
 Holm, James (I. Hon.)
 Hood, Archibald James
 Horne, Robert Stevenson
 Hunter, Norman M'Leod
 Hutton, William Kilpatrick
 Kirk, William
 Landsborough, David
 Lewars, John
 Liddell, John
 London, Robert H.
 Lumsden, Harry
 Melville, Alexander P.
 Mitchell, William
 Moffatt, James
 Muir, James
 Macara, John
 M'Coll, Malcolm
 M'Connachie, Robert
 MacDonald, Donald (*Uist*)
 Macdonald, Gavin Parker

M'Fadyen, John Edgar
 M'Farlane, William
 M'Innes, Alexander
 M'Innes, John Alexander
 Mackenzie, John Buchanan
 M'Kinven, Donald
 M'Lean, Archibald
 MacLeod, John
 Macnicol, Nicholas
 Macnie, Robert L.
 M'Neill, George Alex. C.
 Macpherson, Ebenezer B. H.
 Nelson, Adam
 Newlands, William
 Nielson, Andrew Bonar
 Orr, John
 Paul, Robert J.
 Pinkerton, Peter
 Ralston, William Henry
 Robertson, James C.
 Ross, John M. E.
 Russell, James
 Short, James
 Simpson, David Merry
 Smith, Alexander
 Smith, Allan MacGregor
 Smith, George M.
 Stevenson, Alexander
 Stirling, William
 Taylor, Robert Bruce
 Thomson, John
 Thomson, Peter Taylor
 Venters, Robert
 Warnock, Gavin
 Weir, John
 Wright, Daniel
 Young, Frank Stanley
 Young, John
 Young, William Ross

III.—FOR DEGREES IN LAW.

I.—FOR DEGREE OF LL.B.

1. IN CIVIL LAW.

April, 1890.

Boyd, Herbert Cameron, M.A.

2. IN LAW OF SCOTLAND.

October, 1889.

Chalmers, Thomas, M.A.
 Fraser, Charles Fred. Pollock, M.A.
 Hutchison, William, M.A.

Lillie, Thomas Holtum, M.A.
 Watt, Wellstood Alex., M.A.
 Wilson, David Landale, B.A.

April, 1890.

Boyd, Herbert Cameron, M.A.

Kerr, William Caird, M.A.

3. IN CONVEYANCING.

October, 1889.

Braidwood, Gavin, M.A.	Mackenzie, Alex. Roderick, M.A.
Christie, James Robertson, M.A.	Thomson, James, M.A.
Gentles, Thomas Adam, M.A.	Turnbull, John Aitken, M.A.
Guthrie, Hugh M., M.A.	Watt, Wellstood Alex., M.A.

4. IN PUBLIC LAW.

October, 1889.

Gentles, Thomas Adam, M.A.	Richardson, Frank Bertram, M.A.
Kirkhope, John, M.A.	Turnbull, John Aitken, M.A.

5. IN CONSTITUTIONAL LAW AND HISTORY.

October, 1889.

Christie, James Robertson, M.A.	Kirkhope, John, M.A.
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6. IN MEDICAL JURISPRUDENCE.

October, 1889.

Braidwood, Gavin, M.A.	Lillie, Thomas Holtum, M.A.
Chalmers, Thomas, M.A.	Mackenzie, Alex. Roderick, M.A.
Christie, James Robertson, M.A.	Richardson, Frank Bertram, M.A.
Fraser, Charles Fred. Pollock, M.A.	Wilson, David Landale, B.A.
Hutchison, William, M.A.	

April, 1890.

Kerr, William Caird, M.A.

II. FOR DEGREE OF B.L.

1. IN LATIN.

November, 1889.

Hay, Robert Blair	M'Clure, Robert Wilson
	Sloan, David Norman

April, 1890.

Fraser, John Ferguson	Wyllie, John
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2. IN GREEK.

November, 1889.

Pagan, William Durant

3. IN LOGIC.

November, 1889.

Laird, James Mungo	Pagan, William Durant
Morton, James	Wyllie, John

April, 1890.

Healy, Christopher John	Pollok, James Cullen
M'Kerrow, James	Young, John Ross

4. IN MORAL PHILOSOPHY.

November, 1889.

Malloch, Donald M'Leod	Rowan, Gilbert Davidson
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April, 1890.

Chapman, George Charles	Kerr, James Dickson
	Morton, James

5. IN ENGLISH LITERATURE.

November, 1889.

Pollok, James Cullen	|	Yuill, John Daniel Fitz-James
		<i>April, 1890.</i>
Malloch, Donald M'Leod	|	Robertson, William
Murray, Andrew Gilmour	|	Sloan, David Norman
Pagan, William Durant	|	

6. IN MATHEMATICS.

April, 1890.

Hutchison, Edward

7. IN NATURAL PHILOSOPHY.

8. IN FRENCH.

October, 1889.

Edington, Patrick F. W.	|	M'Clure, Robert Wilson
Hurll, John	|	Stirling, James Fergus

9. IN GERMAN.

10. IN CIVIL LAW.

October, 1889.

Niven, Thomas Brown William

April, 1890.

MacIntyre, John		Tennent, John
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11. IN LAW OF SCOTLAND.

October, 1889.

MacIntyre, John		Robertson, James
		Tennent, John
		<i>April, 1890.</i>

Sellar, Charles		Thompson, James Cargill
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12. IN CONVEYANCING.

October, 1889.

Mitchell, John Peter		Niven, Thomas Brown William
		<i>April, 1890.</i>

Hutchison, William, M.A.	|	Robertson, James
MacIntyre, John	|	Tennent, John

13. IN PUBLIC LAW.

14. IN CONSTITUTIONAL LAW AND HISTORY.

April, 1890.

Robertson, James

15. IN MEDICAL JURISPRUDENCE.

October, 1889.

Mitchell, John Peter	|	Robertson, James
MacIntyre, John	|	Tennent, John

April, 1890.

Armour, Peter	|	Sellar, Charles
	|	Thompson, James Cargill

16. IN POLITICAL ECONOMY.

April, 1890.

Armour, Peter

IV.—FOR DEGREE OF B.Sc.

Old Regulations.

1. IN LATIN.

2. IN GREEK.

3. IN LOGIC.

4. IN MORAL PHILOSOPHY.

5. IN ENGLISH LITERATURE.

November, 1889.

Buchanan, Walter

6. IN MATHEMATICS.

November, 1889.

M'Cartney, Robert T.

April, 1890.

Collins, Hugh Brown

7. IN NATURAL PHILOSOPHY.

November, 1889.

Barclay, Robert D.

April, 1890.

Smith, Frank Brown

| Woodburn, Alexander

8. IN ANATOMY.

October, 1889.

Wallace, William, M.A.

9. IN BOTANY.

April, 1890.

Boag, John Sinclair, M.A.

10. IN ZOOLOGY.

October, 1889.

Craig, James, M.A.

11. IN GEOLOGY.

October, 1889.

Hutchison, George Lean

| M'Queen, William Temple
Turner, John H. Tudsbery*April, 1890.*

M'Ewan, James Wardrop, M.A.

12. IN CHEMISTRY.

April, 1890.

Manners, Hugh, M.A.

| Thomson, Peter

13. IN PHYSIOLOGY.

October, 1889.

Miller, Robert B.

14. IN CIVIL ENGINEERING AND MECHANICS.

15. IN PRACTICAL ENGINEERING

16. IN GEODESY.

New Regulations.

A. IN BIOLOGICAL SCIENCE.

FIRST EXAMINATION—NATURAL PHILOSOPHY, CHEMISTRY.

November, 1889.

Cook, William S.

SECOND EXAMINATION—ZOOLOGY, BOTANY.

November, 1889.

McKendrick, William James

B. IN PHYSICAL SCIENCE.

FIRST EXAMINATION—MATHEMATICS, NATURAL PHILOSOPHY, CHEMISTRY.

November, 1889.

Muir, James Stanley

MacLellan, Duncan

Smith, Robert Watson

April, 1890.

Boyd, David Runciman.

FINAL EXAMINATION—CHEMISTRY.

April, 1890.

Muir, James Stanley (Hon.)

MacLellan Duncan

Smith, Robert Watson (Hon.)

C. IN ENGINEERING SCIENCE.

1. MATHEMATICS.

November, 1889.

Carver, Thomas Albert Briggs

April, 1890.

Easton, William Cecil

Fenwick, James

Henderson, James Blacklock

Miller, James

Sharpe, William

Shields, William Herbert

2. NATURAL PHILOSOPHY.

November, 1889.

Carver, Thomas Albert Briggs

Miller, James

April, 1890.

Cormack, John Dewar

Inglis, James Denny

Sharpe, William

3. CHEMISTRY.

October, 1889.

Coulson, George Francis

Fenwick, James

Workman, Harold

Younger, Archibald Scott

April, 1890.

Brownlee, Hugh Rodger	|	Parry, Evan
Wood, Robert Crawford		

4. GEOLOGY.

October, 1889.

Johnston, Ernest Robert

April, 1890.

Miller, James

5. GEODESY.

April, 1890.

Henderson, James Blacklock	|	Moore, David Muirhead
Shields, William Herbert		

6. CIVIL ENGINEERING AND MECHANICS.

October, 1889.

Carver, Thomas Albert Briggs

April, 1890.

Fenwick, James	|	Shields, William Herbert
Henderson, James Blacklock	|	Venters, William Beattie
Parry, Evan	|	Wood, Robert Crawford

7. PRACTICAL ENGINEERING.

April, 1890.

Coulson, George Francis	|	Parry, Evan
Easton, William Cecil	|	Shields, William Herbert
Henderson, James Blacklock	|	Venters, William Beattie

8. NAVAL ARCHITECTURE.

October, 1889.

Inglis, James Denny

PRELIMINARY EXAMINATION IN ARTS FOR DEGREE OF M.A.

The following passed in Latin :—

Birkett, George N. M.	Lusk, William	Patrick, Andrew
Blue, William	Lyle, James	Ralston, R. G.
Campbell, James Gillies	Miller, William Charles	Rillie, Robert
Chalmers, John	Morison, Colin Murdo	Rodger, James
Cuthill, James S.	Munro, Edwin Smith	Ruggan, John
Donald, William	M'Clure, Jas. Campbell	Rule, Robert
Drever, James R.	M'Fadyen, Joseph F.	Russell, Robert
Dunlop, James Slater	M'Gilchrist, Arch. C.	Samson, Robert
Dunlop, Malcolm	Mackenzie, James	Scott, Samuel
Forsyth, John M.	M'Kenzie, Roderick	Shaw, John
Gunn, John	Macleroy, Campbell M.	Stewart, Frederick R.
Hodge, John M.	MacLucas, Malcolm	Wilson, George Lithgow
Hunter, Thomas	Macnair, Nerman	Wilson, Robert
Johnston, John J. H.	Macnaughtan, Joseph	Yeomans, Robert
King, Walter	Macnicol, Roderick R.	
Louttit, John D.	M'Pherson, George	

The following passed in Greek :—

Birkett, George N. M.	Louttit, John D.	Reid, Hugh
Blue, William	Lyle, James	Rillie, Robert
Chalmers, John	M'Clure, James C.	Ruggan, John
Coats, Robert H.	M'Fadyen, Joseph F.	Russell, Robert
Dickie, John M'A.	M'Gilchrist, Archd. C.	Samson, Robert
Dunlop, James S.	M'Kenzie, Roderick	Scott, Samuel
Forsyth, John M.	Macleroy, Campbell M.	Wilson, Robert
Johnston, John J. H.	Macnaughtan, Joseph	Yeomans, Robert
King, Walter	M'Pherson, George	

The following passed in Mathematics :—

Birkett, George N. M.	Hunter, Thomas	M'Pherson, George
Blue, William	Jack, William	Patrick, Andrew
Campbell, James G.	Johnston, John J. H.	Ralston, Robert G.
Cowie, Andrew R.	Louttit, John D.	Robertson, Allan M.
Cuthill, James S.	Lyle, James	Rodger, James
Dickie, John M'A.	Miller, William C.	Ruggan, John
Dunlop, James S.	M'Callum, Gavin	Rule, Robert
Dunlop, Malcolm	M'Fadyen, Joseph F.	Samson, Robert
Ferguson, James	M'Gilchrist, Archd. C.	Shaw, John
Ferrier, Robert M.	M'Lachlan, Andrew	Strachan, Peter D.
Fleming, Alfred J.	Macleroy, Campbell M.	Taylor, James
Forbes, Charles	MacLucas, Malcolm	Wilson, George L.
Forsyth, John M.	M'Millan, William S.	Wilson, Robert
Graham, Arthur L.	Macnair, Norman	Wingate, John
Hodge, John M.	Macnaughtan, Joseph	Yeomans, Robert

ENTRANCE EXAMINATION IN THE FACULTY OF ARTS.

The following satisfied the Examiners :—

Alexander, David	Henderson, Wm. Craig	MacLucas, Malcolm
Armstrong, Wm. Buchan	Hodge, John M.	M'Millan, William S.
Bain, William Lamb	Houston, David	Macnair, Norman
Birkett, George N. M.	Hunter, Thomas	Macnaughtan, Joseph
Blue, William	Johnston, William	M'Pherson, George
Campbell, James G.	King, Walter	Nimmo, Andrew Reid
Chalmers, John	Leitch, John Wilson	Ralston, Robert G.
Cleland, James William	Louttit, John D.	Rule, Robert
Coats, Robert Hay	Martin, William Francis	Scott, James
Cowie, Andrew Rankine	Mason, John	Shaw, John
Dickie, John M'A.	Mather, Matthew M.	Simpson, Charles P.
Dort, Karl Leonard van	Meiklem, Robert A. R.	Simpson, Robert W.
Drever, James R.	Menzies, James Rae	Smith, Andrew Doak
Duke, John Alexander	Miller, William C.	Smith, Lawrence D.
Duncan, Alex. Adams	Murdoch, George Bain	Stewart, Frederick R.
Ferguson, James	Murdoch, Robert	Stewart, John
Forsyth, Thomas	M'Clure, James C.	Taylor, James
Gardner, James Wilson	M'David, James	Wilson, George L.
Gardner, William R.	M'Fadyen, Joseph F.	Wingate, John
Gillies, Alexander	M'Lean, Hugh Spencer	Young, Alex. Francis
Henderson, W. Campbell	Macleroy, Campbell M.	

BURSARY EXAMINATION.

November, 1889.

The figure (2) denotes Students of the second year.

The following Candidates distinguished themselves in the Competition, viz. :—

1. William Blue, City Public School and Hutchesons' Grammar School, Glasgow
2. Robert Samson, Old Cumnock Public School and Ayr Academy
3. Charles William Stewart (2), High School of Glasgow
4. Robert Yeomans, King's College School, London
5. George N. M. Birkett, Glasgow Academy
6. Joseph F. M'Fadyen, Hutchesons' Grammar School, Glasgow
7. John M'A. Dickie, Kilmarnock Academy
8. Joseph Macnaughtan, Glasgow Academy
9. William G. Skinner (2), Glasgow Academy
10. Archibald C. M'Gilchrist, High School of Glasgow
11. John Ruggan, Hutchesons' Grammar School, Glasgow
12. Gavin L. Pagan (2), Hamilton Academy
13. Walter S. Findlay (2), Hutchesons' Grammar School, Glasgow
14. John J. H. Johnston, Lenzie Academy
15. Campbell M. Macleroy, High School of Glasgow
16. James S. Dunlop, Kilblain Academy, Greenock
17. John D. Louttit, Hutchesons' Grammar School, Glasgow
18. William S. Templeton (2), Hamilton Academy
19. Robert H. Coats, Paisley Grammar School
20. John Thomson (2), Paisley Grammar School
21. George M'Pherson, Paisley Grammar School
22. James Ferguson, High School of Glasgow
23. Malcolm MacLucas, Hutchesons' Grammar School, Glasgow
24. William C. Miller, Lenzie Academy
25. John G. Spens (2), Private
26. Robert Rillie, Ayr Academy
27. James Orr (2), Hillhead Public School, Glasgow
28. James C. M'Clure, Kelvinside Academy, Glasgow
29. John M. Forsyth, Hutchesons' Grammar School, Glasgow
30. Charles W. Hutcheson (2), High School of Glasgow
31. Thomas Hunter, Kilmarnock Academy
32. Robert Wilson, Garnethill Public School, Glasgow
33. Andrew Patrick, Ayr Academy
34. James Lyle, Rothesay Public School
35. Andrew M'Lachlan, Rothesay Academy
36. Robert Rule, Kelvinside Academy, Glasgow
37. Hugh A. Hamilton (2), High School of Glasgow
38. John Shaw, Hamilton Academy
39. Malcolm Dunlop, Kilblain Academy, Greenock
40. James W. Gillespie (2), Falkirk High School
41. Hugh Reid, Ayr Academy
42. James Rodger, F.C. Normal School, Glasgow
43. Robert W. Sadler (2), High School of Glasgow
44. Robert Russell, Ayr Academy
45. George L. Wilson, St. John's Grammar School, Hamilton
46. Gavin M'Callum, Castlemaine Grammar School, Victoria
47. Norman Macnair, Glasgow Academy
48. Alfred J. Fleming, High School of Glasgow
49. John M. Hodge, Hutchesons' Grammar School, Glasgow
50. Andrew R. Cowie, Hutchesons' Grammar School, Glasgow

UNIVERSITY PRIZES.

I.—For Essays :—

1. In Natural Philosophy, the CLELAND GOLD MEDAL, for the best Experimental Investigation on the Viscosity of Air and other Gases.

James Robert Erskine Murray.

2. In Mental Philosophy, the UNIVERSITY SILVER MEDAL, for the best Essay on “An Examination of Lotze’s Microcosmus.”

James R. Cameron.

3. The GARTMORE GOLD MEDAL, for the best Essay on “Democracy—Ancient and Modern.”

John White.

4. A COULTER PRIZE of Five Pounds for best Essay on “Locke and Leibnitz.”

John White.

5. A COULTER PRIZE of Five Pounds for the best Latin Essay on “Corruptissima republica plurimae leges.”

John E. M’Fadyen.

6. The HENDERSON PRIZE of Twenty Guineas, for the best Essay on “The Sabbath in the Talmud.”

William Swan, M.A.

II.—For Examination.

1. An ARNOTT PRIZE of about Fifteen Pounds, for Examination in General Physics, open to Students of the First and Second Years of their Medical Studies.

William S. Cook.

2. An ARNOTT PRIZE of Twenty-five Pounds, for Examination in Physiological Physics, open to Students of the Third and Fourth Years of their Medical Studies.

Robert C. Robertson, M.A.

3. The GLADSTONE HISTORICAL PRIZE of £21, for the Best Examination in English History.

James Robertson Christie, M.A.

4. The JAMIESON PRIZE, value about Ten Pounds, for an Examination in Hebrew, New Testament Exegesis, and Apologetics.

Peter Adam, M.A.

5. The FINDLATER (DIVINITY) SCHOLARSHIP, value about Thirty-eight Pounds, for an Examination in Hebrew, New Testament Exegesis, and Apologetics.

Daniel Kirkwood, M.A.

6. The MACFARLAN and COOK TESTIMONIAL PRIZE of Twenty Guineas, open to Theological Students of Three Years’ standing—Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

Daniel Kirkwood, M.A.

7. The THOMAS LOGAN MEDAL and PRIZE to the most distinguished Graduate in Arts of the year (1889).

Alfred Ernest Garvie, M.A., with First-Class Honours in Mental Philosophy.

8. The BRUNTON MEMORIAL PRIZE, value about Ten Pounds, given to the most distinguished Graduate in Medicine of the year (1889).

William Robert Jack, B.Sc.

CLASS PRIZES.

Faculty of Theology.

DIVINITY.

PROFESSOR WILLIAM P. DICKSON, D.D., LL.D.

SENIOR CLASS.

I.—Students of the Third Year :—

For Eminence in Written Examinations.

1. Peter Adam, M.A., Forgue, Aberdeenshire
2. Daniel Kirkwood, M.A., Paisley
3. Robert Gardner, M.A., Milngavie
4. Joseph McNeill Frazer, M.A., Glasgow
5. William Moffat, M.A., Eastwood

II.—Students of the Second Year :—

For Eminence in Written Examinations.

1. Matthew S. Dickson, Holytown
2. Duncan H. Brodie, M.A., Whitburn
3. James M. Crawford, Bridge of Weir
4. { Angus Macdonald, M.A., Kilfinichen, Iona } Equal
 { William Main, Glasgow }

Dowanhill Prizes of £21 and £10 10s. for Elocution.

1. William Hall, M.A., Kilmaronock
2. Robert Galbraith, Linwood

JUNIOR CLASS.

For Eminence in Written Examinations.

1. William Thomson, M.A., Kilmarnock
2. John White, Partick
3. William Howie, M.A., Galston
4. Archibald Black Scott, M.A., Glasgow
5. John Easton Black, Greenock

DIVINITY AND BIBLICAL CRITICISM.

PROFESSOR WILLIAM STEWART, D.D.

I.—Written Examinations :—

SENIOR DIVISION.

1. Peter Adam, M.A., Forgue, Aberdeenshire
2. Daniel Kirkwood, M.A., Paisley
3. Robert W. Rutherford, M.A., Glasgow
4. John M. Littlejohn, M.A., Glasgow

Proxime accesserunt—Joseph M'N. Frazer, M.A., Glasgow ; James S. Naismith, M.A., B.Sc., Stonehouse ; Hugh Armstrong, M.A., Glasgow.

JUNIOR DIVISION.

1. John Campbell, M.A., Glasgow
2. { Angus Macdonald, M.A., Kilfinichen, Iona } Equal
 { William Main, Glasgow }

Proxime accesserunt—Duncan H. Brodie, M.A., Whitburn ; James M. Crawford, Bridge of Weir.

II.—Essays :—

1. Peter Adam, M.A., Forgue, Aberdeenshire
 2. { Joseph M'N. Frazer, M.A., Glasgow
 { Robert Gardner, M.A., Milngavie
 3. Daniel Kirkwood, M.A., Paisley
-

ORIENTAL LANGUAGES.

PROFESSOR JAMES ROBERTSON, D.D.

I.—SENIOR HEBREW CLASS.

1. John H. Martin, M.A., Hamilton
2. Duncan H. Brodie, M.A., Whitburn,
3. William M. Campbell, M.A., Bishopbriggs
4. John Campbell, M.A., Glasgow
5. John M. Littlejohn, M.A., Glasgow.

II.—JUNIOR HEBREW CLASS.

1. William Howie, M.A., Galston
2. John Livingston, Baldernock
3. Andrew R. Low, Greenock
4. { David H. Gillan, Carmunnock
 { Ewen M. Macgregor, M.A., Dundee
6. William Vallance, Glasgow
7. Robert Barr, Bearsden

Honourable Mention—Andrew Campbell, Balfroun ; John Boyle, M.A.,
Farnell, Brechin.

CHURCH HISTORY.

PROFESSOR ROBERT HERBERT STORY, D.D.

SENIOR CLASS.

General Excellence in Written and Oral Examination

1. William Moffat, M.A., Eastwood
2. James B. Wood, M.A., Brechin
3. { James S. Naismith, M.A., B.Sc., Stonehouse } Equal
 { Robert W. Rutherford, M.A., Glasgow }
4. { Peter Adam, M.A., Forgue, Aberdeenshire } Equal
 { Joseph M'Neill Frazer, M.A., Glasgow }

Proxime accesserunt—John M. Littlejohn, M.A., Glasgow ; Daniel Kirkwood, M.A., Paisley ; Robert Gardner, M.A., Milnegavie ; James M'Kinnon, M.A., Killean, Argyllshire ; Charles Lucius M'Laren, Houston.

JUNIOR CLASS.

General Excellence in Written and Oral Examination.

1. John White, Partick
2. William Howie, M.A., Galston, Ayrshire
3. Andrew Campbell, Catrine, Ayrshire
4. { Robert L. Boyd, Dalserf, } Equal
 { Archibald B. Scott, M.A., Glasgow }
5. David H. Gillan, Carmunnock

Proxime accesserunt—John Boyle, M.A., Farnell, Brechin ; John E. Black, Greenock ; James W. Macdonald, M.A., Logierait, Perthshire ; William Metcalfe, Ayr.

Faculty of Law.

CIVIL LAW.

PROFESSOR ALEXANDER MOODY STUART, Advocate.

For Eminence in the Class Examinations.

1. *Gavin Braidwood, M.A.
 2. { *Herbert C. Boyd, M.A.,
*Alfred Scobie, M.A. } Equal
 4. David B. Pattison, M.A.
 5. John Hurl
 6. John Tennent
 7. { Henry D. M'Kechie
Adam Nimmo, M.A. } Equal
 9. John MacIntyre
-

SCOTS LAW.

PROFESSOR ALEXANDER MOODY STUART, Advocate.

I. For Eminence in the Class Examinations.

1. *Andrew G. Murray (Robert Ross Prize)
2. { *Thomas J. Y. Brown
*James S. Leadbetter, B.A.
*James C. Thompson (Dean of Faculty's Prize) } Equal
5. *Henry D. M'Kechie
6. Alexander C. Tullis
7. John Wilson
8. Gavin L. Woodrow
9. Andrew Alston, M.A.
10. James Strang
11. George Wylie
12. John Curdie
13. William R. Morison

II. The Prizes given by the Faculty of Procurators in Glasgow for Eminence in a Special Examination on the Subjects of the Course were awarded to :—

1. Andrew G. Murray
2. James C. Thompson
3. { Henry D. M'Kechie
George Wylie } Equal
5. { Alexander C. Tullis
Gavin L. Woodrow } Equal

The following Students distinguished themselves in this Examination, viz. :—

7. John Wilson
8. { Thomas Allison
Alexander B. Thom } Equal

The * denotes the Prizemen.

CONVEYANCING.

PROFESSOR JAMES MOIR.

Ordinary Class Examinations.

Prizemen :—

1. Thomas Muirhead (the Robert Ross Prize)
2. James M'Cosh (the Dean of Faculty's Prize)
3. Alexander Knox
4. Alexander Donaldson
5. John Grieve

Eminently Distinguished :—

6. William Ritchie
7. Duncan Macniven
8. William Hutchison, B.A.
9. James Davidson
10. John Tennent
11. James Balfour Paterson
12. Archibald Cameron
13. James Bannatyne
14. Alexander Walker
15. } William A. Allan
 { Edward Irving Findlay

Examination for Prizes given by the Faculty of Procurators in Glasgow.

Prizemen :—

1. James M'Cosh
2. John Grieve
3. John Tennent

Eminently Distinguished :—

4. Alexander Donaldson
5. Alexander Knox
6. Duncan Macniven
7. James Balfour Paterson
8. William Ritchie
9. William Hutchison, M.A.
10. David L. Forgan
11. Robert M. Stewart
12. William A. Allan

FORENSIC MEDICINE.

Summer Session, 1889.

PROFESSOR PIERCE ADOLPHUS SIMPSON, M.A. (Cantab.), M.D.

William Hunter Medal—John P. Mitchell

First-Class Certificates of Merit (alphabetically arranged).

Charles F. P. Fraser, M.A.
 Thomas H. Lillie, M.A.
 William Hutchison, M.A.
 David L. Wilson

Faculty of Medicine.

MEDALS AND CERTIFICATES OF MERIT.

FORENSIC MEDICINE.

PROFESSOR P. A. SIMPSON, M.A. (Cantab.), M.D.

SUMMER 1889.

William Hunter Medal—Oswald Rees

FIRST CLASS CERTIFICATES OF MERIT (alphabetically arranged).

James Barr	Andrew Biggam Houstoun
David Coutts	Anthony M'Call
Thomas Fleming	William Harrop Parry
James Hudson	William Robertson

William J. Robertson, M.A.

SECOND CLASS CERTIFICATES OF MERIT (alphabetically arranged).

Matthew Cameron	David M'Donald
George Henry Edington	Robert A. Morton, B.Sc.
Thomas Forrest	Alexander G. Mowat, M.A.
John G. Kerr	Donald Murray
William D. Macfarlane	Alexander D. Wilson

DISEASES OF WOMEN.

PROFESSOR WILLIAM LEISHMAN, M.D.

SUMMER SESSION, 1889.

CLASS I. (in order of Merit).

Archibald Fairlie, M.A.	Joseph H. Dickson	} Equal.
William Hutchinson	John M'Kie	

CLASS II. (arranged alphabetically).

Robert Broom, B.Sc.	William Gemmell
John Richmond Bryce	James L. Loudon
John Clarke	James P. Low
Isaac Fletcher	James A. Macpherson

MIDWIFERY.

PROFESSOR WILLIAM LEISHMAN, M.D.

FIRST CLASS CERTIFICATES (in order of merit).

Medallist—Alexander Shiels

David H. Fotheringham, M.A.	John Pollock
James S. Buchanan	James A. N. Scott

SECOND CLASS CERTIFICATES (arranged alphabetically).

Alexander Percy Agnew	James Hill
James Barr	Gilbert D. Johnson
Robert Bell	James R. Logan
John A. Boyd	James Paul Low
John Calderwood	James G. M'Naught, M.A.
Matthew Cameron	Robert A. Morton, B.Sc.
John Munro Campbell	Donald Murray
George H. Edington	William J. Robertson, M.A.
Thomas Forrest	William M'G. Smith
Charles Herbert Hall	Lewis D. Temple

James Alexander Wilson

MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR MATTHEW CHARTERIS, M.D.

FIRST CLASS CERTIFICATES (in order of merit).

Medallist—Hugh Galt

Thomas J. Freeman
John G. Ronald
Robert W. Nairn

John W. Logie
George C. Stewart
Niel Campbell

SPECIAL FIRST CLASS CERTIFICATE FOR EXCELLENCE IN TWO EXAMINATIONS.

Robert Bishop

SECOND CLASS CERTIFICATES (in order of merit).

John Yuill
James H. Naismith
William C. Allardice
James G. Duncanson
James W. White
James Aitken
Robert Langmuir
Thomas Divine

David Lamb
James Todd
John M'Gregor
William Duncan
Archibald G. Sanders
Alfred E. Evans
Robert M'Ghie
Robert J. Marshall

Andrew Findlay.

PRACTICAL PHARMACY.

SUMMER SESSION, 1889.

PROFESSOR MATTHEW CHARTERIS, M.D.

WILLIAM HUNTER MEDALS AND FIRST CLASS CERTIFICATES.

1. { Thomas J. Freeman } Equal
 { Robert Bishop }

FIRST CLASS CERTIFICATES (in order of merit).

2. John W. Logie
3. John Pollock

4. { Thomas P. Anderson
 { Lewis D. Temple
5. { Robert Burns
 { Robert W. Nairn

SECOND CLASS CERTIFICATES (in order of merit).

1. John Gilmour
2. William T. M. Wallace
3. { Archibald G. Sanders
 { William R. Thomson, M.A.
4. William Park
5. John A. Creighton

6. George C. Stewart
7. { Andrew Findlay
 { John M'Gregor
8. Kristnalal Datta
9. { Charles H. M'Ilwraith M.A.
 { William J. M'Kendrick

10. Fred. W. E. Hutchison

PRACTICE OF MEDICINE.

PROFESSOR WILLIAM T. GAIRDNER, M.D., LL.D.

THE CULLEN MEDAL—James G. M'Naught, M.A., Glasgow

FIRST CLASS CERTIFICATES (in order of merit).

1. Daniel M'Kenzie, Larkhall
2. William C. Allardice, Glasgow
3. Wm. J. Robertson, M.A., Bearsden
4. { Peter H. Abercrombie, Paisley
 { David Lamb, Glasgow
 { John Pollock, Glasgow

SECOND CLASS CERTIFICATES (in alphabetical order).

James Barr, Johnstone
 James S. Buchanan, Australia
 Niel Campbell, Glasgow
 Thomas Forrest, Glasgow
 Hugh Galt, Kilmarnock
 James Kirkwood, Greenock
 Robert M'Ghie, Lichfield
 James P. MacLaren, M.A., Glasgow
 James H. Naismith, Hamilton
 George M. Sydenham, Devon
 Lewis D. Temple, Ballantrae
 James Todd, Glasgow

CLINICAL MEDICINE.

PROFESSOR WILLIAM T. GAIRDNER, M.D., LL.D.

THE WM. CULLEN MEDAL—John Munro Campbell, Edinburgh

FIRST CLASS CERTIFICATES (in order of merit).

1. Peter H. Abercrombie, Paisley
2. John Pollock, Glasgow
3. { John Galloway, Glasgow
 { James G. M'Naught, M.A., Glasgow
4. David Lamb, Glasgow.

SPECIAL PRIZE.

For Best Notes of Lectures and Clinical Demonstrations during the
 Session—John Munro Campbell, Edinburgh.

SECOND CLASS CERTIFICATES (in alphabetical order).

Alex. Percy Agnew, Dulwich, England
 Robert Burns, Glasgow
 James Dick Campbell, Barr, Ayrshire
 Hugh Galt, Kilmarnock
 James Hill, Glasgow
 John Lithgow, Shotts
 George A. Main, Glasgow

CLINICAL MEDICINE.

PROFESSOR T. M'CALL ANDERSON, M.D.

SUMMER SESSION, 1889.

FIRST CLASS CERTIFICATES (in order of merit).

SENIOR DIVISION.

- | | |
|--|--|
| . John Cockburn Syson
2. { Andrew R. Mitchell
{ John M'Kie | 3. James Hudson
4. Andrew B. Houstoun |
|--|--|

JUNIOR DIVISION.

- | | |
|---|--|
| 1. Charles H. Hall
2. Daniel M'Kenzie
3. James Todd | 4. Robert C. Robertson, M.A.
5. David Smith |
|---|--|

WINTER SESSION, 1889-90.

SENIOR DIVISION.

Medallist—George H. Edington

FIRST CLASS CERTIFICATES (in order of merit).

- | | |
|-----------------------|----------------------------|
| 1. Andrew Morton | 5. Walter K. Hunter, B.Sc. |
| 2. Gilbert P. Johnson | 6. Robert Nichol |
| 3. Robert Wilson | 7. John W. Adams |
| 4. James A. N. Scott | |

JUNIOR DIVISION.

Medallist—William C. Allardice

FIRST CLASS CERTIFICATES (in order of merit).

- | | |
|------------------------------|-----------------------|
| 1. John Gilmour | 7. Robert J. Marshall |
| 2. John W. Logie | 8. Robert W. Nairn |
| 3. James H. Naismith | 9. Thomas P. Anderson |
| 4. Robert C. Robertson, M.A. | 10. John Frew |
| 5. James W. White | 11. John G. Ronald |
| 6. John Yuill | |

SURGERY.

PROFESSOR SIR GEORGE H. B. MACLEOD, M.D.

SENIOR DIVISION.

Medallist—Daniel M'Kenzie

FIRST CLASS CERTIFICATES (alphabetically arranged).

- | | |
|-----------------------|-------------------------|
| Peter H. Abercrombie | James Kirkwood |
| Alexander Percy Agnew | David Lamb |
| John Munro Campbell | Hugh Lang |
| Niel Campbell | David M'Donald |
| John Cross | Robert M'Ghie |
| George H. Edington | James P. MacLaren, M.A. |
| Thomas Forrest | Donald Murray |
| Gilbert P. Johnston | James A. N. Scott |

HIGH COMMENDATION.

- | | |
|----------------------------|-------------------------|
| James Barr | John Galloway |
| Robert Bell | George A. Main |
| Arthur H. Browne | James G. M'Naught, M.A. |
| John Calderwood | William Harrop Parry |
| James Dick Campbell | John Pollock |
| William Clark, M.A., B.Sc. | William J. M. Slowan |
| David Coutts | Alexander D. Wilson |
| | Hugh C. T. Young |

COMMENDATION.

- | | |
|---------------------------|--------------------------|
| James Alexander | John W. Mathie |
| James S. Buchanan | Alexander G. Mowat, M.A. |
| Matthew Cameron | Robert Nichol |
| James H. Campbell | Peter Paterson |
| James P. Low | Lewis D. Temple |
| Archibald M. G. Macdonald | Sholto D. Thomson |

JUNIOR DIVISION.

Medallist—James Carslaw, M.A.

FIRST CLASS CERTIFICATES (alphabetically arranged).

- | | |
|---------------------|-------------------|
| John A. Creighton | John Morton |
| John W. Logie | George C. Stewart |
| John M'Donald, M.A. | Charles Wilson |
| | John Yuill |

HIGH COMMENDATION.

Robert Bishop	|	James D. R. Monro, M.A.
Alexander Edwards	|	Alfred A. Young, M.A.
Robert Guy	|	William Semple Young

COMMENDATION.

Charles E. Cochrane	|	Alexander S. M'Pherson
Walter B. Hastings	|	William J. Richard, M.A.
Robert K. Howat	|	James A. Robertson
William J. M'Kendrick	|	William N. Sime

CLINICAL SURGERY.

PROFESSOR SIR GEORGE H. B. MACLEOD, M.D.

SENIOR DIVISION.

Medallist—Lewis R. Sutherland

FIRST CLASS CERTIFICATES.

Arthur W. Miller		James Swanson, M.A.
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HIGH COMMENDATION (alphabetically).

Archibald Chalmers, M.A.		Alexander Kelso
	|	Alexander R. Smith.

JUNIOR DIVISION.

Medallists {	James Carslaw, M.A.	} Equal
	Alex. R. Ferguson	

FIRST CLASS CERTIFICATES.

Charles Wilson	|	William N. Sime
Alexander S. M'Pherson	|	Robert J. Nevin

HIGH COMMENDATION (alphabetically).

Robert Cochrane	|	John Lindsay
Alexander Edwards	|	John H. Teacher, M.A.
Robert H. Henderson	|	Alfred A. Young, M.A.
	|	William S. Young

CLINICAL SURGERY.

PROFESSOR GEORGE BUCHANAN, M.A., M.D., LL.D.

University Medal—John Morton.

FIRST CLASS CERTIFICATES.

1. James D. R. Monro, M.A.	|	2. Macolm Macnicol, M.A.
	|	3. William L. Brown

INSTITUTES OF MEDICINE.

PROFESSOR JOHN GRAY M'KENDRICK, M.D., LL.D., F.R.S.

JOHN HUNTER MEDAL AND FIRST CLASS CERTIFICATE.

James Carslaw, M.A.

FIRST CLASS CERTIFICATES (in order of merit).

John Morton		Hugh Kerr, M.A.	} Equal
James D. R. Monro, M.A.		John M'Donald, M.A.	
George L. Kerr	} Equal	Malcolm Macnicol, M.A.	
John H. Teacher, M.A.			

Class Assistant—Gilbert P. Johnson.

PRACTICAL PHYSIOLOGY.

SUMMER, 1889.

JOHN HUNTER MEDAL AND FIRST CLASS CERTIFICATE.

Robert C. Robertson, M.A.

FIRST CLASS CERTIFICATES (in order of merit).

Alfred Ernest Evans	} Equal	Thomas J. Freeman
Hugh Galt		William J. M'Kendrick

SECOND CLASS CERTIFICATES (in order of merit).

Daniel M. Taylor, M.A.	James Todd
George C. Stewart	William Young

Ebenezer Turner

ANATOMY.

PROFESSOR JOHN CLELAND, M.D., LL.D., D.Sc., F.R.S.

SENIOR CLASS.

Medal—John Morton

FIRST CLASS CERTIFICATES OF MERIT (in order of merit).

James Carslaw, M.A.	James D. R. Monro, M.A.
John H. Teacher, M.A.	John Paterson, M.A.

SECOND CLASS CERTIFICATES OF MERIT (in order of merit).

Charles Wilson	John J. Boyd	} Equal
John M'Donald, M.A.	Malcolm Macnicol, M.A.	
Leonard A. Rowden	Percy G. M'Reddie	
Thomas Kirkwood, M.A.		

JUNIOR CLASS.

Medal—John J. Urwin

FIRST CLASS CERTIFICATES OF MERIT (in order of merit).

Robert W. Forrest	George Lawson Kerr	} Equal
Campbell S. Marshall	Thomas M'Nay	

SECOND CLASS CERTIFICATES OF MERIT (in order of merit).

Robert Grieve	} Equal	Johnstone Brown	} Equal
William Lang		Archibald S. Dick	
Gavin M'Callum	Wm. Ll. Jones		
William A. Mackay	James Rankin		

Clarence B. Harrison

DEVELOPMENT AND SURGICAL ANATOMY.

SUMMER, 1889.

Prizes.

- | | |
|-----------------|------------------------|
| 1. John Morton | 2. James Carslaw, M.A. |
| 3. John Gilmour | |

CERTIFICATES OF MERIT (in order of merit).

Robert Bishop	George M. Sydenham
John Paterson, M.A.	Archibald G. Sanders
William R. Thomson, M.A.	John M'Gregor
Hugh Galt	James H. Naismith
John Green	James Todd

David Lamb

NATURAL HISTORY.

PROFESSOR JOHN YOUNG, M.D.

ZOOLOGY.

SUMMER, 1889.

WILLIAM HUNTER MEDALS.

John F. R. Gairdner	} Equal
James Fullarton	

FIRST-CLASS CERTIFICATES.

John F. R. Gairdner, 89 per cent.	} Equal
James Fullarton, 89 per cent.	
John T. Fleming, 85 per cent.	

SECOND CLASS CERTIFICATES.

John D. Blacklock	} 75 per cent.	John J. Boyd	} 69 per cent.
William H. Lang		John Paterson	
William H. Jamieson, 73		Campbell S. Marshall	
	„	John J. Urwin	68 „

WINTER SESSION, 1889-90.

WILLIAM HUNTER MEDAL AND FIRST CLASS CERTIFICATE.

William S. Cook.

SECOND CLASS CERTIFICATES.

Archibald Young	Henry F. Menzies
James Rankin	Peter Marshall
Malcolm A. M. Sinclair	James Clark

PRACTICAL ZOOLOGY.

MEDAL—James Rankin

GEOLOGY.

WILLIAM HUNTER MEDAL—Robert M. Ferrier

CERTIFICATES.

Robert M. Ferrier	John D. Cormack
Robert Buchanan	Stewart Paterson, M.A.

BOTANY.

PROFESSOR F. O. BOWER, M.A., D.Sc., F.L.S.

MEDAL—David R. Miller

FIRST CLASS CERTIFICATES.

George L. Kerr (1st year's prize)	John J. Boyd
Malcolm Macnicol.	

SECOND CLASS.

John D. Blacklock	} Equal	Donald A. Dewar	} Equal
James M. Young		Campbell S. Marshall	
James Hunter		Peter C. MacRobert	
Charles Wilson		John Pearson	} Equal
John J. Urwin	Thomas Colvin		
William B. Brodie	Thomas M'Nay		
William M. Brown	Thomas Hamilton		

PRACTICAL CLASS.

MEDAL—James Hunter

FIRST CLASS CERTIFICATES.

John H. Teacher, M.A.		James M. Young } Equal Gavin M'Callum }
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SECOND CLASS.

Hugh Kerr } Equal J. M'Donald } William S. Young } John Lindsay }		Alex. R. Ferguson Alex. Edwards } Equal Ernest C. Moore } Balfour S. Nicholson }
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HERBARIUM PRIZE AND SECOND CLASS CERTIFICATE.

James S. Wallace.

Mr. Wallace's Herbarium contained 386 specimens correctly named.

PRACTICAL CHEMISTRY.

PROFESSOR JOHN FERGUSON, M.A., LL.D.

JOSEPH BLACK MEDALS.

James Carslaw Henry Adolf Cohrs }	} Equal
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FIRST CLASS CERTIFICATES.

William B. Brodie James Carslaw Henry Adolf Cohrs George S. Illingworth		Thomas Kirkwood David R. Miller Charles Stewart William S. Young
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SECOND CLASS CERTIFICATES.

John J. Carruthers James Cochrane Alex. R. Ferguson John Hunter John M'Donald Malcolm Macnicol, M.A. John Morrison		John Morton John A. Naismith John Paterson John Paxton James J. Robb Hugh Robertson Thos. M'K. Wotherspoon
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CHEMISTRY.

PROFESSOR JOHN FERGUSON, M.A., LL.D.

JOSEPH BLACK MEDAL.

John Clark

FIRST CLASS CERTIFICATES.

John Clark		Campbell S. Marshall John J. Urwin
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SECOND CLASS CERTIFICATES.

Johnstone Brown Frederick Dittmar Robert M. Ferrier Robert W. Forrest Gavin M'Callum Alex. MacLennan		Robert R. Manners Hamilton C. Marr Leslie J. Paton Frederick H. Waddy Herbert K. Wallace
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Faculty of Arts.

ENGINEERING.

PROFESSOR ARCHIBALD BARR, D.Sc., M. INST. C.E.

SENIOR CLASS OF CIVIL ENGINEERING AND MECHANICS.

1. James B. Henderson, Glasgow
2. James Fenwick, Sydney, Australia

JUNIOR CLASS OF CIVIL ENGINEERING AND MECHANICS.

1. Robert M. Ferrier, Ardrossan
2. Riotoaro H. Hunter, Japan

SENIOR CLASS OF OFFICE AND FIELD WORK IN ENGINEERING.

1. Robert M. Ferrier, Ardrossan
2. William B. Venters, Carlisle

JUNIOR CLASS OF OFFICE AND FIELD WORK IN ENGINEERING.

1. Alexander Bain, Glasgow
2. David G. Taylor, Kilmaurs

Walker Prizes for Written Examinations.

1. James B. Henderson, Glasgow
2. James Fenwick, Sydney, Australia

Walker Prizes for Oral Examinations.

1. James B. Henderson, Glasgow
2. Wm. H. Shields, St. Servan, France

The George Harvey Prize of £20.

James B. Henderson, Glasgow

Next in Order of Merit.

Wm. H. Shields, St. Servan, France

Recommended for Muir Bursaries.

Robert M. Ferrier, Ardrossan

Alexander G. G. Guthrie, Govan

NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

PROFESSOR PHILIP JENKINS.

UPPER SENIOR CLASS.

Robert C. Wood, Greenock

SENIOR CLASS.

Harold Workman, Glasgow

JUNIOR CLASS.

John Reid, Edinburgh

EVENING CLASS.

James R. Jack, Dumbarton

Ernest W. West, Glasgow

MATHEMATICS.

PROFESSOR WILLIAM JACK, LL.D.

JUNIOR—A. DIVISION.

1. Andrew Hunter, E.C. Normal College
2. John Stewart, E.C. Normal College
3. Archibald M. Johnston, E.C. Normal College
4. { John D. Dowie, Northern P. School, Falkirk } Equal
 { John Chalmers, E.C. Normal College }

JUNIOR—B. DIVISION.

1. Thomas G. Conochie

Prize for Written Examinations—Open to both Divisions of the Class.

Andrew Hunter

MIDDLE—A. DIVISION.

1. { Thomas Nisbet, E.C. Normal College } Equal
 { James Rodger, F.C. Normal College }
3. Andrew Watt, E.C. Normal College
4. James M. Edward, E.C. Normal College

MIDDLE—B. DIVISION.

1. Charles S. Dougall
2. Malcolm Dunlop, Kilblain Academy, Greenock
3. Thomas W. Fawns
4. David S. Jerdan, Collegiate School, Greenock

Prize for Written Examinations—Open to both Divisions of the Class.

Charles S. Dougall

Under the Regulations of the Bursary, the Junior Muir Bursary in Mathematics is assigned to Mr. Dougall.

SENIOR.

1. Daniel Lamont
2. Edward H. Wallace
3. Robert G. Nisbet

Prize for Written Examinations.

Daniel Lamont

Under the Regulations of the Bursary, the Senior Muir Bursary in Mathematics is assigned to Mr. Lamont.

UPPER SENIOR.

Cunninghame Gold Medal.

1. John D. Cormack
2. Peter Pinkerton

VACATION EXERCISES.

LAST YEAR'S JUNIOR.

James H. Mather

LAST YEAR'S MIDDLE.

Robert G. Nisbet

LAST YEAR'S SENIOR.

Horatio S. Carslaw

ASTRONOMY.

PROFESSOR ROBERT GRANT, LL.D., F.R.S.

First Prize—James B. Henderson, Glasgow

Second Prize—Wm. S. Brownlee, Rutherglen

NATURAL PHILOSOPHY.

PROFESSOR SIR WILLIAM THOMSON, LL.D., D.C.L., F.R.S.

FIRST YEAR STUDENTS.

1. Peter Pinkerton, Glasgow
2. David Baird, Irvine
3. { John R. Blackwood, Torrance of Campsie
William Buchanan, Bannockburn
5. Alexander Stevenson, Kilmarnock
6. { John Bartholomew, Torrance of Campsie
William S. Brownlee, Rutherglen
8. Horatio S. Carslaw, Helensburgh
9. { John D. Allison, Paisley
James C. Robertson, Kilmarnock
11. Hugh Cowan, Glasgow
12. { Daniel Lamont, Glasgow
Gavin M'Callum, Victoria, Australia
Robert Bruce Taylor, Glasgow
15. Charles E. Jones, Dresden
16. Archibald M'Lean, Paisley
17. Alexander G. G. Guthrie, Govan

SECOND YEAR STUDENTS.

1. Thomas A. Leishman, Paisley
2. Gilbert Buchanan, Ayr

ADVANCED NATURAL PHILOSOPHY CLASS.

John D. Cormack, Dumbarton

LABORATORY STUDENTS.

- | | |
|---|-------------------------------|
| { | William Buchanan, Bannockburn |
| | Charles E. Jones, Dresden |
| | William R. Wilson, Partick |

MORAL PHILOSOPHY.

PROFESSOR EDWARD CAIRD, LL.D.

I.—Prizes awarded by the Votes of the Students for General Eminence
in the Work of the Class.

First Prize of the Whole Class (Buchanan Prize)—Nicholas Macnicol, Dunoon

SENIOR DIVISION.

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. James F. Gemmill, Mauchline 2. Henry Crombie, Hull 3. John A. Dron, Glasgow 4. James R. Aitken, Glasgow | <ol style="list-style-type: none"> 5. John Whyte, Cumbernauld 6. James Muir, Glasgow 7. John Barbour, Troon |
|---|--|

JUNIOR DIVISION.

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. James Moffatt, Glasgow 2. Joshua Ferguson, Crosshill, Glas-
gow 3. John H. Pagan, Bothwell 4. Alex. J. Pearse, Madagascar 5. David Connor, Crosshill, Glasgow | <ol style="list-style-type: none"> 6. Robert S. Horne, Slamannan 7. Horatio S. Carslaw, Helensburgh 8. John Lewars, Lanark 9. Andrew R. Low, Greenock 10. Frank Stanley Young, Glasgow |
|--|---|

II.—Prizes for Written Examinations on the Lectures delivered during the Session—

1. (Prize offered by former Students)—James F. Gemmill

2. $\left\{ \begin{array}{l} \text{Robert S. Horne} \\ \text{James Moffatt} \\ \text{John Whyte} \end{array} \right\}$ Equal

III.—Prizes for Vacation Work—

A. For the best Examination on Plato's *Republic*—Robert S. Horne

B. For the best Examination on Ferrier's *Lectures* and Zeller's *Socrates*—John H. Pagan

HIGHER MORAL PHILOSOPHY CLASS.

I.—Prizes for Excellence in Written Examination—

1. James R. Cameron, Bearsden, Glasgow

2. $\left\{ \begin{array}{l} \text{Robert Baillie Douglas, Glasgow} \\ \text{Robert Bulloch Douglas, Glasgow} \end{array} \right\}$ Equal

II.—Prize for Vacation Work—James R. Cameron

LOGIC AND RHETORIC.

PROFESSOR JOHN VEITCH, LL.D.

I.—For Eminence in the Work of the Class during the Session, as shown in Oral and Written Examinations and Essays.

First Prize of the Class, open to Senior and Junior Students (Buchanan Prize)—Andrew G. Thomson, Kilmarnock

SENIOR DIVISION.

1. Robert Macgregor, Greenock
2. David Graham, Lugton, Beith
3. Thomas M. Duncan, Paisley
4. David Young, Strathaven
5. Matthew Mair, Tarbolton
6. Walter Jardine, Thornhill, Dumfriesshire
7. John S. Hastie, Maryhill
8. David Young, Ayr
9. Henry A. Watson, Glasgow
10. John S. Boyd, Dalry, Ayrshire
11. William G. Skinner, Glasgow
12. Harry S. Reid, Glasgow

JUNIOR DIVISION.

1. Peter Macnab, Govan
2. Peter D. Thomson, Rosneath
3. John M. Manford, Hillhead, Glasgow
4. John Calderwood, Pollokshields
5. Walter Stewart, Gartsherrie
6. Francis Boyd, Partick
7. Alexander M. Hamilton, Glasgow

II.—Work prepared during the Summer Vacation.

A. Students of Session 1889-90.

Preliminary Examination in Reid and Institutes of Logic.

SENIORS.

1. James A. Clark, Barrhead
2. William C. Anderson, Hillhead, Glasgow

JUNIORS.

Andrew G. Thomson, Kilmarnock.

B. Students of Session 1888-9.

ESSAY.

"The Theory of Evolution in Science and Philosophy."

John H. Pagan, Bothwell.

ENGLISH LITERATURE.

PROFESSOR ANDREW C. BRADLEY, M.A.

SENIOR.

I.—For Eminence in the Work of the Class during the Session.

1. (The BUCHANAN PRIZE), Robert Bulloch Douglas, Glasgow
2. John Whyte, Cumbernauld
3. Robert Lamond, Glasgow
4. Robert Scott Brown, Paisley
5. Thomas D. Robb, Paisley
6. Douglas B. Binning, Glasgow
7. John Forsyth, Glasgow
8. Henry A. Watson, Glasgow
9. Adam Howat, Dalmellington

II.—For the Best Essay on "The Elizabethan Drama and the Victorian Novel."

Thomas D. Robb

JUNIOR.

I.—For Eminence in the Work of the Class during the Session.

1. James Affleck Clark, Barrhead
2. William O. Clazy, Paisley
3. George S. Stewart, Crosshill, Glasgow
4. John E. M'Fadyen, Glasgow
5. John Gillies, Rothesay
6. William G. Skinner, Glasgow
7. Andrew G. Murray, Stirling
8. Alexander M. Hamilton, Glasgow
9. Horatio S. Carslaw, Helensburgh
10. Harry S. Reid, Glasgow

II.—For the best Essay on "Arthur Hugh Clough."

James Affleck Clark.

GREEK.

PROFESSOR GEORGE G. A. MURRAY, B.A.

I.—Prizes for General Excellence in the Work of the Class during the Session.

SENIOR GREEK CLASS, 8 A.M.

JEFFREY GOLD MEDAL.—Gavin Lang Pagan, Hamilton Academy.

ORDINARY PRIZES.

1. { John Paton, Ayr Academy.
Edward H. Wallace, Hamilton Academy and Glasgow High School.
3. Ebenezer Scott, Woodside Public School, Glasgow

4. Robert M. Buchanan, Glasgow High School
5. { Samuel Scott, Carlisle Grammar School
Alexander Taylor, Glasgow Academy
7. John G. Spens, Glasgow
8. Hugh Cowan, Glasgow Academy
9. Dugald M. Cowan

MIDDLE GREEK CLASS (PROVECTIONES).

SCOTT-MACFARLAN GOLD MEDAL—William Blue, Hutchesons' Grammar School, Glasgow.

ORDINARY PRIZES.

1. Andrew Watt, E.C. Training College, Glasgow
2. { James P. Baird, St. John's Grammar School, Hamilton
John G. Cranmer, Bearsden Public School
Alfred J. Fleming, Glasgow High School
Joseph F. M'Fadyen, Hutchesons' Grammar School, Glasgow
6. John Wilson
7. John S. Robertson
8. John D. Louttit, Hutchesons' Grammar School, Glasgow
9. William C. Miller, Lenzie Academy
10. { John Cuthill Chalmers
Robert R. Hobart
John Ruggan, Hutchesons' Grammar School, Glasgow

JUNIOR GREEK CLASS (TIRONES).

PRIZES.

1. Archibald Hunter.
2. James Law
3. Andrew M. Barr
4. James M'David, Ewart High School, Newton Stewart.
5. George R. Aitken
6. John Dunlop
7. Thomas R. Brown
8. Roderick Fraser, Achiltibuie Public School, Ross-shire

II.—Prizes for Written Examinations and Exercises.

SENIOR GREEK CLASS, 8 A.M.

Homer—Gavin Lang Pagan.

Herodotus and Thucydides—{ Gavin Lang Pagan.
Robert M. Buchanan

SENIOR AND PRIVATE CLASS, 2 P.M.

Agamemnon—John H. Pagan

Electra—John H. Pagan

Composition and Translation—James P. Wilson

MIDDLE CLASS.

Xenophon—William Blue

Herodotus—William Blue

JUNIOR CLASS.

Grammar—{ Archibald Hunter
James Law

Xenophon—Archibald Hunter

Composition—James M'David

VACATION WORK.

Middle Class of 1888-89.

Greek Prose—Ebenezer Scott

Senior Class of 1889-90.

Demosthenes : Olynthiacs—Edward H. Wallace

Middle Class of 1889-90.

Xenophon : Anabasis III., IV.—William Blue

BLACKSTONE EXAMINATION.

Cowan Gold Medal—George D. Brown

HUMANITY CLASS.

PROFESSOR GEORGE G. RAMSAY, M.A., LL.D.

- I. Prizes for General Eminence during the Session, awarded according to the results of Written Examinations.

JUNIOR CLASS, 8 A.M.

1. Andrew S. Gilchrist, Hazelbank, Lesmahagow (Underbank Public School)
2. James M'David, Newton-Stewart (Ewart High School, Newton-Stewart)
3. William Mackay, Fearn, Ross-shire (Raining School, Inverness, and Public School, Glasgow)
4. { Roderick Fraser, Achiltibuie, Ross-shire (Achiltibuie Public School)
5. { William Cleland, Glasgow (Public School)

MIDDLE CLASS, AT 8 AND 11 A.M.

1. Robert H. Coats, Paisley (Paisley Grammar School)
2. Joseph F. M'Fadyen, Glasgow (Hutchesons' Grammar School)
3. Alfred J. Fleming, Rutherglen (High School)
4. John Ruggan, Rutherglen (Hutchesons' Grammar School)
5. William Blue, Glasgow (Hutchesons' Grammar School)
6. James Ferguson, Glasgow (High School)
7. James Lyle, Rothesay (Rothesay Public School)
8. Ranald Macdonald, Benbecula (Benbecula Public School and Glasgow High School)

SENIOR CLASS, 9 A.M.

1. Cowan Gold Medallist and First Prizeman—Robert G. Nisbet, Pollokshields (Hutchesons' Grammar School)
2. Gavin L. Pagan, Bothwell (Hamilton Academy)
3. Charles W. Thomson, Dennistoun, (Hutchesons' Grammar School)
4. John Paton, Ayr (Ayr Academy)
5. Ebenezer Scott, Glasgow (Woodside Public School)
6. John G. Spens, Glasgow (private study)
7. Samuel Scott, Carlisle (Carlisle Grammar School)
8. William B. Thomson, Glasgow (Paisley Grammar School)
9. { Robert M. Buchanan, Glasgow (High School)
10. { Edward H. Wallace, Hamilton (Hamilton Academy and Glasgow High School)

SENIOR AND PRIVATE CLASS, 1 P.M.

The Muirhead Prize, for the Best Examination on the Lectures and Prelections delivered during the session. The Books read were:—Persius: Horace, *Satires* I. ; Lucretius I., II.

1. Peter Macnab, Paisley (Paisley Grammar School)
2. Robert G. Nisbet, Pollokshields (Hutchesons' Grammar School)
3. Campbell C. Edgar, Mauchline, Ayrshire (Ayr Academy)

For Latin Prose Composition—Senior Class.

SECTION I.

1. Campbell C. Edgar, Mauchline, Ayrshire
2. John Paton, Ayr

SECTION II.

Ebenezer Scott, Glasgow

VACATION EXERCISES.

- I. For the Best Examination in Livy XXI., Horace, *Odes* I., and Virgil, *Georgic* I.

OPEN TO THE SENIOR CLASS OF 1889-90.

Equal { Robert G. Nisbet, Pollokshields
Edward H. Wallace, Hamilton

- II. For the Best Examination in Virgil, *Æneid* I., lines 1-417, and Cicero, *De Amicitia*.

OPEN TO THE JUNIOR CLASS OF 1888-89.

William M. Steven, Renfrew (Renfrew Public School)

- III. For the Best Translation into Latin of Cowley's Essays, Essay on Agriculture, from the beginning to the words "troublesome and dangerous."

OPEN TO THE SENIOR CLASS OF 1888-89.

William O. Clazy, Paisley (Paisley Grammar School)

- IV. For the Best Translation into Latin of Shelley, Essays and Letters, p. 159, The Assassins, ch. 1, from the beginning, "Jerusalem goaded on," . . . to p. 162, "The power of tears is great."

OPEN TO THE SENIOR CLASS OF 1889-90.

David S. Jerdan, Greenock (Collegiate School, Greenock)
Distinguished—Robert G. Nisbet, Pollokshields

X.—EXAMINATION QUESTIONS.

I.—ENTRANCE EXAMINATION IN ARTS.

NOVEMBER, 1889.

ENGLISH.

1. Write and punctuate the passage now to be read ; also analyse the part to be specified.

2. Parse fully the words in italics in the following stanzas :—

Now overhead a rainbow, bursting through
The *scattering* clouds shone, spanning the dark sea,
Resting its bright base on the quivering *blue*,
And *all* within its arch appeared to be
Clearer than *that* without, and its wide hue
Wax'd broad and waving like a banner free,
Then changed like to a bow that's bent and then,
Forsook the dim eyes of these shipwreck'd men.

About this time a beautiful white bird,
Web-footed, not unlike a dove in size
And plumage (probably it might have err'd
Upon its course), pass'd oft before their eyes
And tried to perch, although it saw and heard
The men within the boat, and in this guise
It came and went, and flutter'd round them till
Night fell ;—*this* seemed a better omen *still*.

3. Write in prose a paraphrase of the second stanza, and explain shortly why it is easier to paraphrase than the first.

4. Comment on—*upon, within, in this guise*, in the second stanza.

5. Correct errors in the following:—*incompatable, sherrieff, insiduious, herbacious, twelth, rarify, turretted, subtilty*.

6. Point out any peculiarity in these:—

(a) Yet hark how through the peopled air
The busy murmur glows.

(b) The corps of half her Senate
Manure the fields of Thessaly.

7. Improve these sentences:—

(a) Sailing up the river the whole town may be seen.

(b) By greatness I do not only mean the bulk of any single object but the largeness of the whole view.

(c) The understanding that can digest the one will not rise at the other.

8. Suggest the derivation of—*galvanic, blighted, scent, plumage, course, wax'd.*

9. Write a short essay on one of the following subjects:—

- (a) Cruelty to animals.
- (b) Walking.
- (c) Volunteers.

LATIN.

1. Write the genitive plural of—*custos, urbs, nomen, vir, juvenis, vis, tres, plerique, jus.*

2. Decline completely—(a) *volvenda dies*, (b) *latus succinctum*, (c) *vultus ipse*.

3. Conjugate the verbs from which the following words are derived:—*voluntas, lictor, agmen, iter, natura*; also give the future indicative and present subjunctive (1st pers. sing.) of each.

4. Translate into English these phrases:—*mori in vestigio; in sententiam pedibus ire; actum est de isto; ante diem quintum Calendas Apriles; adverso colle.*

5. Translate into Latin:—

(a) Two circumstances had occurred to increase the resentment of the King.

(b) The battle of the Cavalry remained doubtful for some time.

(c) A little before daylight, according to arrangement, the Consul ordered his men to advance.

(d) The Generals returned to Rome, as this appeared the safest course for the present.

6. Translate this passage:—

Arpineius et Junius, quae audierunt, ad legatos deferunt. Illi repentina re perturbati, etsi ab hoste ea dicebantur, tamen non *neglegenda* existimabant, maximeque hac re permovebantur, quod civitatem ignobilem atque humilem Eburonum sua *sponte* populo Romano bellum facere *ausam* vix erat credendum. Lucius compluresque tribuni militum nihil temere agendum neque ex *hibernis injussu* Caesaris discedendum existimabant: *quantasvis* copias etiam Germanorum sustineri posse munitis hibernis docebant: rem esse testimonio, quod primum hostium impetum multis ultro vulneribus *illatis* fortissime sustinuerint.

7. Parse fully the words in *Italics*; account for the tense and mood of *esse*, and the case of *testimonio*, and give the full meaning of *ultro*.

8. Derive the words—*repentina, humilem, nihil, strage, princeps, anceps.*

GREEK.

1. Decline fully *μαθητής, ζῶον, λέων, χαρίεις, ὅστις* and *δεικνύς*.

2. Give the vocative singular and dative plural of *παῖς, γυνή, ὕδωρ, ἀναξ, Ἴψς*; the feminine of *βασιλεύς, μέλας, ἥρως, πεπαυκώς, εἰς, εἰς*; and the gender of *ὁδός, βρέφος, πῦρ, κῆρ*.

3. Write the degrees of comparison of *πολύς, καλός, ὀρθός, σαφώς*,

πρῶτος; the cardinal numbers from 1 to 10 (inclusive), mentioning those that are declinable.

4. What is the meaning of αὐτός, αὐτός, οὗτος, μηδεὶς, ὅς, οἱ ἀγαθοὶ ἄνδρες, ἀγαθοὶ οἱ ἄνδρες?

5. Write fully the Indicative of the first aorist active, middle, and passive of some verb.

6. Translate into English:—

Πρὸς ταῦτα μεταστάντες οἱ Ἕλληνες ἐβουλευόντο· καὶ ἀπεκρίναντο, Κλέαρχος δ' ἔλεγεν· Ἡμεῖς οὔτε συνήλθομεν ὥς βασιλεῖ πολεμήσοντες οὔτε ἐπορευόμεθα ἐπὶ βασιλέα, ἀλλὰ πολλὰς προφάσεις Κῦρος εὕρισκεν, ὥς καὶ σὺ εὖ οἶσθα, ἵνα ὑμᾶς τε ἀπαρασκεύους λάβωι καὶ ἡμᾶς ἐνθάδε ἀγάγωι. ἐπεὶ μέντοι ἤδη αὐτὸν ἐωρῶμεν ἐν δεινῷ ὄντα, ἡσχύνθημεν καὶ θεοὺς καὶ ἀνθρώπους προδοῦναι αὐτόν, ἐν τῷ πρόσθεν χρόνῳ παρέχοντες ἡμᾶς αὐτοὺς εὖ ποιεῖν. ἐπεὶ δὲ Κῦρος τέθνηκεν, οὔτε βασιλεῖ ἀντιποιοῦμεθα τῆς ἀρχῆς οὐτ' ἔστιν ὅτου ἕνεκα βουλοίμεθα ἂν τὴν βασιλείᾳς χώραν κακῶς ποιεῖν, οὐδ' αὐτὸν ἀποκτεῖναι ἂν ἐθέλομεν, πορευοίμεθα δ' ἂν οἴκαδε, εἴ τις ἡμᾶς μὴ λυποίῃ· ἀδικοῦντα μέντοι πειρασόμεθα σὺν τοῖς θεοῖς ἀμύνασθαι· ἐὰν μέντοι τις ἡμᾶς καὶ εὖ ποιῶν ὑπάρχη, καὶ τούτου εἰς γε δύναμιν οὐχ ἡττησόμεθα εὖ ποιοῦντες.

7. Parse fully μεταστάντες, πολεμήσοντες, εὕρισκεν, ἀδικοῦντα, πρόσθεν; explain the syntax of βασιλεῖ . . . τῆς ἀρχῆς, ὅτου, τούτου; what is referred to in προφάσεις? derive the words ἀπαρασκεύους, ἡσχύνθημεν, οἴκαδε, λυποίῃ, πειρασόμεθα.

8. Where were Sardis, Pisidia, Elis, Boeotia, Teuthrania, Cunaxa, Ismarus, Thespieae?

9. Give a short account of the life of Xenophon.

MATHEMATICS.

1. Simplify, giving each result as a decimal,

$$(a) \frac{1\frac{1}{2} - 1\frac{1}{3}}{1\frac{1}{2} + 1\frac{1}{3}}; \quad (b) \frac{.03 \times .02 \times .01}{.0006}; \quad (c) \sqrt{\frac{.0017}{5}}.$$

2. A square field contains 20 acres. How long will a man walking at the rate of 4 miles an hour take to cross the field from one corner to the corner opposite?

3. A sum of money at simple interest amounts to £688 when the rate is $2\frac{1}{2}$ per cent. and the time 3 years. What would the amount be if the rate were $3\frac{1}{2}$ per cent. and the time 2 years?

4. A sells a pony to B at a gain of 25 per cent. B sells it to C at a gain of 25 per cent. A now buys back the pony for £100 from C, who makes 25 per cent. on his transaction. Find original cost to A and the amount of money he has lost.

5. (a) Find the value of $\frac{a - \sqrt[3]{b}}{\sqrt[3]{a} - \sqrt[3]{ab}}$, when $a = 64$ and $b = 8000$.

$$(b) \text{ Simplify } \frac{\left(x - \frac{1}{x}\right)^2}{x^2 - \frac{1}{x^2}} \times \frac{x^4 + 3x^2 + 2}{x + \frac{2}{x}} \times \frac{x}{x^4 + x^2 - 2}.$$

6. What number is that the double of which exceeds four-fifths of its half by 40?

7. Solve the equations : (a) $(x+5)(x-2) - (x-5)(x+3) = 6x-5$;

(b) $\frac{a(b^2+x^2)}{bx} = ac + \frac{ax}{b}$; (c) $\frac{x}{x+60} = \frac{7}{3x-5}$.

8. (a) Prove that the sum of any two sides of a triangle is greater than the third side.

(b) Prove that the sum of the four sides of a quadrilateral is less than twice the sum of the diagonals.

9. (a) Prove that parallelograms on the same base and between the same parallels are equal in area.

(b) Bisect a triangle by a straight line drawn through a point (not the middle point) in a side.

10. (a) Divide a straight line in medial section.

(b) If a line be 1 inch long, find the length of the larger of the two parts.

FRENCH.

1. Translate :—

(a) On fut bien plus surpris encore quand on le vit renoncer tout d'un coup aux amusements les plus innocents de la jeunesse. Du moment qu'il se prépara à la guerre il commença une vie toute nouvelle, dont il ne s'est jamais depuis écarté un seul moment. Plein de l'idée d'Alexandre et de César, il se proposa d'imiter tout de ces deux conquérants, hors leurs vices. Il ne connut plus ni magnificence, ni jeux, ni délassements ; il réduisit sa table à la frugalité la plus grande. Il avait aimé le faste dans les habits ; il ne fut vêtu depuis que comme un simple soldat.

(b) Il fallut qu'Auguste ordonnât lui-même à tous ses officiers de magistrature de ne plus le qualifier de roi de Pologne, et qu'il fit effacer des prières publiques ce titre auquel il renonçait. Il eut moins de peine à élargir les Sobiesky : ces princes au sortir de leur prison refusèrent de le voir ; mais le sacrifice de Patkul fut ce qui dut lui coûter davantage : d'un côté le czar le redemandait hautement comme son ambassadeur ; de l'autre le roi de Suède exigeait en menaçant qu'on le lui livrât.

2. Translate :—

Cornélius étouffait de joie et de bonheur. Il ouvrit sa fenêtre et contempla longtemps, avec un cœur gonflé de joie, l'azur sans nuages du ciel, la lune qui argentait le double fleuve, ruisselant par delà les collines. Il se remplit les poumons d'air généreux et pur, l'esprit de douces idées, l'âme de reconnaissance et d'admiration religieuse.

Oh ; vous êtes toujours là-haut, mon Dieu ! s'écria-t-il, à demi prosterné, les yeux ardemment tendus vers les étoiles, pardonnez-moi d'avoir presque douté de vous ces jours derniers, vous vous cachez derrière vos nuages, et un instant j'ai cessé de vous voir, Dieu bon, Dieu éternel, Dieu miséricordieux.

3. Give the present participle, the past participle, the 3rd plural present indicative, and the 3rd plural future indicative of *plaire*, *suivre*, *vouloir*, *écrire*, *pouvoir*.

4. Give the feminine forms of *sec, long, favori, malin, frais, jou, and petit.*

5. Put into French :—

(a) There were there at least three thousand men.

(b) I shall not see him again for eight days.

(c) How long have you been here?

(d) There is nothing that I would not do for you.

(e) I want to know if you still have rooms to let in your house?

6. Put into French prose :—

“ I saw a boy with eager eye
Open a book upon a stall,
And read, as he'd devour it all ;
Which, when the stall-man did espy,
Soon to the boy I heard him call,
' You, sir, you never buy a book,
Therefore in one you shall not look. ' ”

GERMAN.

1. Translate :—

Elisabeth.

(a) Was wünscht er?

(*Sie zieht einen Ring vom Finger und betrachtet ihn nachdenkend.*)

Hat die Königin doch nichts
Vorans vor dem gemeinen Bürgerweibe !
Das gleiche Zeichen weist auf gleiche Pflicht,
Auf gleiche Dienstbarkeit—der Ring macht Ehen,
Und Ringe sind's, die eine Kette machen.
—Bringt Seiner Hoheit dies Geschenk. Es ist
Noch keine Kette, bindet mich noch nicht ;
Doch kann ein Reif draus werden, der mich bindet.

Maria.

(b) O, das ist Euer traurig finst'rer Argwohn !
Ihr habt mich stets als eine Feindin nur
Und Fremdlingin betrachtet. Hättet Ihr
Zu Euer Erbin mich erklärt, wie mir
Gebührt, so hätten Dankbarkeit und Liebe
Euch eine treue Freundin und Verwandte
In mir erhalten.

Elisabeth.

Draussen, Lady Stuart,
Ist Eure Freundschaft, Euer Haus das Papsttum ;
Der Mönch ist Euer Bruder—.

2. Parse fully the words—*weist, werden, Hättet, Gebührt, stets, Euch.*
Is the idiom *Ringe sind's* the same as the English idiom?

3. Give English words etymologically connected with—*gleich, Zeichen, Pflicht, Reif, reif* (adj.), *Zeit, klein, leid.*

4. What is the meaning of old or strong conjugation as applied to German verbs? Conjugate *denken, helfen, schieben.*

5. Translate into English :—

Der guten Frau rollten die hellen Thränen über die vollen runden Wangen, als sie jetzt die Frage an mich richtete : warum ich denn nicht in die Gaststube getreten, wo es doch viel wärmer und angenehmer sei ? und ich ihr die Antwort gab : 'ich besitze nur noch fünf Pfennige.' Darauf fasste mich die gute Frau fest bei der Hand und zog mich mehr nach der Gaststube, als ich ihr freiwillig dahin folgte ; dort angekommen, gab sie einem Dienstmädchen irgend welchen Auftrag und erkundigte sich dann mit grosser Lebhaftigkeit nach allem, was ihr zu wissen wünschenswerth schien und worauf ich ihr ohne Rückhalt die nöthige Aufklärung gab.

6. Translate into German :—

About 10 o'clock at night the train arrived at the Amsterdam Station. On the journey I had got information from a pleasant fellow-traveller about a good hotel with moderate charges, and was just on the point of directing a porter to carry my bag to a cab when another porter came up and enquired in German if I was a tourist and a friend of Mr. ———. On my saying yes, he threw my bag over his shoulder and asked me to follow him.

ANCIENT HISTORY.

A. GREEK HISTORY.

1. Describe the situation of the chief states of Ancient Greece, and a chief town of each. (A map preferred.)
2. Mention some of the mountains of Greece ; say where they are, and what has made each famous.
3. Name six Greek poets or dramatists, and six prose writers ; and tell what you know of any one of them.
4. Give a short account of the Persian invasion in 490 B.C.
5. How did Philip of Macedon succeed in gaining supremacy in Greece ? What were the Philipics ?
6. Give dates of the following battles—Salamis, Plataea, Issus, Leuctra, Thermopylae, Coronea and Cheronaea, and describe one of them.
7. Sketch briefly the career of Alexander the Great.
8. Where was Thebes ? Mention some famous Thebans, and give a short biography of one of them.

B. ROMAN HISTORY.

1. Name some Roman women belonging to the period studied, and say what part they took in politics.
2. Give a short account of Quintus Sertorius.
3. When, by whom, and for what purpose was the Second Triumvirate formed ?
4. Tell what you know of the Invasion of Britain by Julius Cæsar.
5. Give dates of the following events, and describe one of them :—Death of Tiberius Gracchus, of Catiline, of Pompey, of Julius Cæsar, of Cicero, and of Brutus.

6. Give a brief account of the following :—Cato the Censor, Bibulus the Consul ; Clodius the Tribune ; and Spartacus, the Gladiator.

7. Sketch briefly the career of Caius Marius.

8. Write briefly what you know of the functions of the *Dictator*, *Censor*, *Consul*, *Praetor*, *Tribune*, amongst the Romans.

MODERN HISTORY.

C. SCOTTISH HISTORY.

1. Name the Stuart kings of Scotland, with the dates of accession of each.

2. Describe the murder of James I., and state what you know of that king's writings.

3. Trace briefly the rise and fall of the noble House of Douglas, noticing some of its famous members.

4. Where are the following places, and for what incidents are they each noted :—Solway Moss, Lauder Bridge, Sauchie Burn, Langside, and Linlithgow ?

5. What mention is made of ships and shipbuilding in the history of this period ?

6. Describe the battle of Flodden, and the events that led to it.

7. Tell what you know of Maitland of Lethington, Kirkaldy of Grange, and George Buchanan.

8. What event is styled the Union of the Thistle and the Rose, and what were its ultimate consequences ? Write what you know of the poet who celebrated the event.

D. ENGLISH HISTORY.

1. What were the three chief ecclesiastical parties in England in the reign of James I. ? Which did the king favour ? And why ?

2. Who were the parliamentary leaders opposed to Charles I. ? Give a short account of one of them.

3. Sketch the career of the Marquis of Montrose in his Scotch campaigns.

4. Describe the battle of Dunbar and its consequences.

5. Tell what you know of the Popish plot.

6. Who was the Duke of Monmouth ? Mention the chief events of his life.

7. Contrast the characters of Charles II. and his brother James II.

8. Mention some of the events that led to the Revolution of 1688.

II.—PRELIMINARY EXAMINATION IN ARTS AND FOR OPEN BURSARIES.

OCTOBER–NOVEMBER, 1889.

LATIN.

Translate into English:—

1. Passage from a Latin Prose writer (18 lines).
2. Passage from a Latin Poet (23 lines).

Translate into Latin:—

Charles appeared before the court only to deny its competence and to refuse to plead; but thirty-two witnesses were examined to satisfy the consciences of the judges, and it was not till the fifth day of the trial that he was condemned to death as a tyrant, traitor, murderer, and enemy of his country. The popular excitement had vented itself in cries of “Justice” or “God save your Majesty,” as the trial went on; but all, save the loud outcries of the soldiers, was hushed as Charles passed to receive his doom. The dignity which he had failed to preserve in his long jangling with the judges returned at the call of death. Whatever had been the faults and follies of his life—“he nothing common did or mean upon that memorable scene.” Two executioners awaited the king as he mounted the scaffold (*suggestus*); the streets and roofs were thronged with spectators; and a strong body of soldiers stood drawn up beneath. His head fell at the first blow, and as the executioner lifted it to the sight of all a groan of horror and pity burst from the silent crowd.

LATIN GRAMMAR.

1. Write the genitive and accusative singular of the following words:—*romer, vesper, cinis, flos, limes, tellus, Simois, and Anio.*
2. Decline in full—*hic felicius dies, nobile officium, clarus poeta, sacer dux.*
3. Compare *benevolus, nequam, gracilis, vetus, pauper, superus.*
4. Form adverbs from *vir, tutus, fortis, radix, pando, rapio.*
5. Give the different meanings of *castrum* and *castra, auxilium* and *auxilia, pars* and *partes, finis* and *fines, opera* and *operae.*
6. Conjugate *vinco, vincio, meto, metior, pango* and *finjo*. To what classes of verbs do *odi, aulco, esurio* and *adulesco* belong?
7. Give the Latin for the following:—
 - (a) His father and mother died at Carthage.
 - (b) Balbus and I were born at Arpinum.
 - (c) The two camps were plundered by the Gauls.
 - (d) January 1st, January 10th, January 31st.

8. Remark on the following expressions:—

(a) Similis sui—similis sibi.

(b) Pars caesi sunt.

(c) Fruges consumere nati.

(d) Pecus egit altos visere montes.

(e) Hinc populum late regem bellóque superbum venturum excidio Libyae.

GREEK.

Translate into English:—

1. Passage from a Greek Prose writer (15 lines).

2. Passage from a Greek Poet (13 lines).

3. Passage from a Greek Poet (13 lines).

1. Give the *person, number, tense, mood, voice, and 1st pers. sing. pres. indic. act.* of ἀποσταῖν, δείξασθε, διέθεσαν, εἶδῃ, εἶχες, ἔλωσι, ἐσφάλην, ἠπόρει, ἴστω, ἴστη, καθῆκα, κατέθηκας, λελήθασι, μετήι, παρήνεσαν, ὑφείναι.

2. Express in Greek: (1) the larger houses: (2) the more beautiful temples: (3) the best leaders: (4) the smallest torches: (5) the more shameful deeds: (6) the happiest young men: (7) the sweeter gifts: (8) the wiser guards.

Note. Put (1), (2) and (3) in the *nominative case*; (4), (5) and (6) in the *dative*; (7) and (8) in the *accusative*.

3. Correct the following sentences:—(1) εἰ ποιῆτε τὰ αἱ νόμοι κελεύουν, ἀσφαλῆς ἔσσεσθε. (2) πάντα σοι δόσω πρὶν ἀπῆλθης ἀπὸ τὸν πατρίδα. (3) οὐ λέγε τοιοῦτα, μὴ δοκῇς μῶρόν τινα πεφύκειν.

4. What is the difference in meaning between οἶδε ποιεῖν and οἶδε ποιῶν, φαίνεται εἶναι and φαίνεται ὦν?

5. Translate into Greek:—(1) They say that their own cities are better than ours. (2) If ye had come to me, I would have answered:—‘Know that I would do these things, if I were able.’ (3) We will inquire (πυνθάνομαι) who is now using these oxen.

MATHEMATICS.

FIRST PAPER.

Candidates for the Preliminary Examination only will get full marks for complete answers to TEN questions.

1. If a side of a triangle be produced, the exterior angle is equal to the sum of the two interior opposite angles, and the sum of the three interior angles is equal to two right angles.

ABC is a triangle having the angle B acute and double the angle C ; AD is drawn perpendicular to BC and from AB produced BE is cut off equal to BD . If ED produced meet AC in F , show that FA , FC , FD are equal.

2. Triangles of equal area which have their bases equal and in the same straight line, and which are on the same side of that line, are between the same parallels.

If a point be taken within a parallelogram, the sum of the triangles formed by joining the point with the extremities of a pair of opposite sides is equal to half the parallelogram.

3. In any triangle the square on a side opposite an acute angle is less than the sum of the squares on the sides containing that angle by twice the rectangle contained by either of these sides and the part of it intercepted between the acute angle and the perpendicular on it from the opposite angle.

If b, c be the lengths of the sides CA, AB of a triangle ABC , right-angled at A , and if h be the length of the perpendicular from A on

BC , prove that $\frac{1}{h^2} = \frac{1}{b^2} + \frac{1}{c^2}$.

4. If a diameter of a circle bisect a chord which is not a diameter it shall cut it at right angles.

Through a fixed point in the plane of a circle straight lines are drawn cutting the circle; find the locus of the middle points of the intercepted chords.

5. On a given straight line describe a segment of a circle which shall contain an angle equal to a given angle.

6. Two circles touch externally at A ; a chord BC of the first touches the second at D , while BA produced meets the second at E ; show that the triangles ACD, ADE are equiangular.

7. Show that if any regular polygon be inscribed in a circle, tangents at its vertices will form a regular polygon of the same number of sides circumscribed about the circle.

8. If A and B be two magnitudes of the same kind, and C and D two magnitudes of the same kind, state clearly the test which Euclid uses to see whether the four magnitudes A, B, C, D are in proportion.

Prove that triangles of the same altitudes are to one another as their bases.

9. If two triangles be equiangular to each other, they shall be similar.

In the figure of question 6, show that AD is to DE as the difference between AB and AC is to BC .

10. Equiangular parallelograms have to one another the ratio which is compounded of the ratios of their sides.

The diagonals AC, BD of a quadrilateral $ABCD$ inscribed in a circle cut each other in E ; prove that the rectangle $AB \cdot BC$ is to the rectangle $AD \cdot DC$ as BE is to ED .

11. D is a point in the hypotenuse AB of a right-angled triangle ABC such that AD is to DB as BC is to AC ; if DE, DF be drawn perpendicular to AC, BC respectively, prove that DE is to DF as the square on BC is to the square on AC .

12. Two circles, whose centres are A and B and whose radii are a and b , lie outside each other; if on AB a point D be taken such that $AD^2 - BD^2 = a^2 - b^2$, show that the tangents to the circles from any point on the straight line through D perpendicular to AB are equal.

With D as centre and with the tangent from D to either of the circles as radius a circle is drawn cutting AB in C and E ; if a variable circle touch the two given circles, show that its radius varies as the difference of the squares on the tangents drawn to it from C and E .

13. The rectangle under the distances of the points in which the bisector of the exterior vertical angle and the perpendicular on the base from the vertical angle meet the base from the middle point of the base is equal to the square on half the sum of the sides of the triangle.

SECOND PAPER.

Candidates for the Preliminary Examination only will get full marks for complete answers to TEN questions.

1. Find the expression of highest dimensions in x that is a factor of both the expressions :—

$$x^5 - 7x^3 - 2x + 4 \quad \text{and} \quad x^6 + 2x^5 + 4x^3 + 8x - 8.$$

2. Find the quotient and remainder when $x^3 + ax^2 + bx + c$ is divided by $x - m$, and show that if the dividend is zero for the value m of x , the remainder will be zero for all values of x .

Show without actual division that $x - 1$ and $x + 2$ are factors of $x^3 - \frac{1}{2}x^2 - \frac{7}{2}x + 3$ and find the other factor.

3. Simplify :—(i) $\frac{x^2 + y^2 + x + y - xy + 1}{x - y - 1} + \frac{x^2 + y^2 + x - y + xy + 1}{x + y - 1}$;

$$(ii) \frac{(y - z)^2 + (z - x)^2 + (x - y)^2}{(y - z)(z - x)(x - y)} + 2\left(\frac{1}{y - z} + \frac{1}{z - x} + \frac{1}{x - y}\right).$$

4. Prove that $a^m \times a^n = a^{m+n}$ when m and n are positive integers, and show how a meaning may be given to a^m when m is not a positive integer.

Show that if $p = a^x$, $q = a^y$, $p^3 q^x = a^{\frac{2}{5}}$, then $xyz = 1$; and reduce to its simplest form $2 - 1 + \frac{2^{\frac{1}{3}}}{2^{\frac{1}{3}} - 1} + \frac{1}{2^{\frac{1}{3}} + \frac{1}{2^{\frac{1}{3}} + 1}}$.

5. Explain what is meant by a "root" of an equation and solve the following equations, verifying your results :—

$$(i) \frac{1}{x+1} + \frac{7}{x+5} = \frac{5}{x+3} + \frac{3}{x+7};$$

$$(ii) \sqrt{2x+37} - 2\sqrt{2x+1} = 2\sqrt{10x+14}.$$

6. Solve the following systems of equations :—

$$(i) 4x + 3y - 4z = 2;$$

$$\frac{x}{2} + \frac{y}{3} - \frac{z}{9} = \frac{1}{6};$$

$$x - 2y + 6z = -\frac{1}{2}.$$

$$(ii) \begin{aligned} x^2 - xy &= ax + 3a^2; \\ xy - y^2 &= ay - 3a^2. \end{aligned}$$

7. Sum the series :— (i) $\frac{3}{2} + \frac{7}{6} + \frac{5}{6} + \frac{1}{2} + \dots$ to n terms.

Is there any value of n besides zero for which the sum is zero?

(ii) $1 + 4 + 12 + \dots + r2^{r-1} + \dots$ to n terms.

8. A lady contributes 1s. to the funds of a society and writes to two friends who each contribute 1s. and who each write to two friends who in their turn contribute each 1s. and so on; if in this way £204 15s. be raised, how many persons would be in the group last written to, supposing no one fails to do what is asked of her?

9. Define a "logarithm" and prove that, if a, b, N be any three numbers, $\log_a b \cdot \log_b a = 1$, $\log_a N = (\log_b N) \div (\log_b a)$.

10. Prove the formula $\cos(A - B) = \cos A \cos B + \sin A \sin B$ when A and B are each positive angles less than 90° and A is greater than B .

Find x and y from the equations

$$x \cos A + y \sin A = x \cos B + y \sin B = 2a,$$

and show that if $y^2 = 4a(a + x)$, then $4 \cos^2 \frac{A}{2} \cdot \cos^2 \frac{B}{2} = 1$, A and B being unequal and less than 2π .

11. If r be the radius of the inscribed circle of a triangle and the other symbols have their usual meaning, show that

$$r = \sqrt{\left\{ \frac{(s-a)(s-b)(s-c)}{s} \right\}}, \quad \tan \frac{A}{2} = \frac{r}{s-a}.$$

Find r and A if $a = 1600$, $b = 1088$, $c = 1836$, given

$$\log 6 \cdot 62 = \cdot 8208580 \quad \log 3 \cdot 8257 = \cdot 5827109$$

$$\log 1 \cdot 174 = \cdot 0696681 \quad \log 3 \cdot 8258 = \cdot 5827223$$

$$\log 4 \cdot 26 = \cdot 6294096 \quad \log \tan 30^\circ 1' = 9 \cdot 7617311$$

$$\log 2 \cdot 262 = \cdot 3544926 \quad \log \tan 30^\circ 2' = 9 \cdot 7620227$$

12. Solve the equations:—

$$(i) \sin 9x + \sin 5x + 2 \sin^2 x = 1;$$

$$(ii) \cos 2x - \sqrt{3} \sin 2x - 4(\cos x + \sqrt{3} \sin x) = 6.$$

13. If $\alpha, \beta, \gamma, \delta$ be the four roots of the equation,

$$\sin 2x - a \sin x - b \cos x + c = 0,$$

show that

$$\cos \alpha + \cos \beta + \cos \gamma + \cos \delta = a,$$

and that

$$\cos 2\alpha + \cos 2\beta + \cos 2\gamma + \cos 2\delta = a^2 - b^2.$$

ENGLISH.

1. State briefly what you know of these works:—*The Canterbury Tales*; *Utopia*; *The Vicar of Wakefield*; *Childe Harold's Pilgrimage*; *The Princess*.

2. Give the derivation and explain the formation of the following words:—delusion, tragedy, household, chivalry, deleterious, curfew, preliminary, crescent, lady, ballad, alms.

3. Briefly describe the following characters and name the works in which they appear:—Una, Shylock, Ophelia, Dobbin, Sam Weller, Diana Vernon.

4. What was the influence of the French Revolution on English Literature?

5. Write an essay on "Novel Reading," or a description of any natural scene you are familiar with.

III.—FOR THE DEGREE OF M.A.

I.—FOR ORDINARY DEGREE.

A.—DEPARTMENT OF CLASSICAL LITERATURE.

LATIN TRANSLATION.

1. Translate :—
 - (a) Virg. *Æn.* VIII., 433-443. Parte alia Marti . . . arte
magistra. Praecipitate moras.
 - (b) Virg. *Æn.* VIII., 689-697. Una omnes ruere . . . tergo
respicit angues.
2. Translate :—
 - (a) Propertius II. 13. 27-34. Tu vero nudum . . . funeris umbra
locum.
 - (b) Propertius IV. 3. 51-62. Nam mihi quo Poenis . . . ad nova
lucra popae.
3. Translate :—

Either (a) Juv. *Sat.* I., 117-126. Sed cum summus honor . . . noli
vexare, quiescet.

(b) Juv. *Sat.* IV., 123-132. Non cedit Veiento . . . spatio-
sum colligat orbem.

Or (c) Horat. *Epist.* I., 6. 50-61. Mercemur servum, qui . . .
referret Emptum mulus aprum.

(d) Horat. *Epist.* I., 19. 35-45. Scire velis, mea . . . Te
solum, tibi pulcher.
4. Translate :—
 - (a) Tacit. *Annal.* III., 24. D. Silanus, quamquam . . . quae
Augustus volnisset.
 - (b) Tacit. *Annal.* III., 67. Nec dubium habebatur . . . vinclum
et necessitas silendi.

LATIN PROSE.

The Romans, who thought that they would easily become masters of the city, were not a little discouraged by the skill of the defenders ; but Vespasian was only the more enraged at the obstinacy of the garrison and the subtlety of the commander. For the besieged, confident in the strength of their bulwarks, determined to renew their former sallies : forming in small bands, they fought with the courage of regular troops and the tricks and cunning of robbers. Sometimes they would creep out and carry away whatever they could lay their hands on ; sometimes, unperceived, they set fire to the works. At length Vespasian, believing that he could not take the city by assault, proceeded to reduce it by famine. For he felt certain that soon either the garrison would desire to capitulate, or, if they were still obstinate in their resistance, that they would perish from want. A wall was built which entirely surrounded the city, and cut off the inhabitants from all communication with the allies who had formerly assisted them.

GENERAL PAPER.

A. UNPREPARED TRANSLATION.

(THE DEATH OF HANNIBAL.)

Hannibal, postquam est nuntiatum, milites regiones in vestibulo esse, . . . venenum, quod multo ante praeparatum ad tales habebat casus, poposcit. 'Liberemus' inquit 'diuturna cura populum Romanum, quando mortem senis exspectare longum censent. Nec magnam nec memorabilem ex inermi proditoque Flaminius victoriam feret. Mores quidem populi Romani quantum mutaverint, vel hic dies argumento erit. Horum patres Pyrrho regi, hosti armato, exercitum in Italia habenti, ut a veneno caveret, praedixerunt; hi legatum consularem, qui auctor esset Prusiae per scelus occidendi hospitis, miserunt.' Exsecratus deinde in caput regnumque Prusiae, et hospitales deos violatae ab eo fidci testes invocans, poculum exhaustit. Hic vitae exitus fuit Hannibalis.

B. GRAMMAR.

1. Write short notes on the following expressions, giving in each case the context, and any explanations as to meaning or construction which you consider to be necessary:—(a) *Rex obsitus aëro*, (b) *Inexpletus lacrimans*, (c) *Tanto laetus honore*, (d) *Libyci nobile dentis opus*, (e) *In Tiberim defluxit Orontes*; or, *Reddes dulce loqui*, (f) *Bella accinctis obeunda*.

2 Explain, with examples, the use of the gerunds and supines in Latin.

3. Give the perfect (first singular indicative active) of *porrigo*, *incedo*, *vello*, *veneo*, *pungo*; the superlative of *facile*, *dives*, *din*; the gender of *vulgus*, *fraus*, *manus*; the cases governed by *obliviscor*, *potior*, *noceo*, *doceo*.

C. ANTIQUITIES.

Explain the following:—(a) *Servare de coelo*; (b) *Multae irrogatio*; (c) *Poenā capitalis*; (d) *Feneratores*; (e) *Lustrum*; (f) *Praecones*.

D. HISTORY.

State briefly what you know on three of the following subjects:—(a) The Carthaginians in Spain, (b) The Battle of Cannae, (c) Flaminius in Greece, (d) The Third Punic War, (e) The Italian rural population.

GREEK TRANSLATION.

Translate:—

1. Herod. VIII., 119, 20, and VIII. 137, 138.
2. Either (a) Soph. *Antig.*, 355-362.
(b) *Ibid.*, 1155-1171.
or (a) Soph. *Phil.*, 300-313.
(b) *Ibid.*, 1196-1205.
or (a) Soph. *Trach.*, 365-378.
(b) *Ibid.*, 993-1004.
3. Plato, *Crito*, 45, 46.

GENERAL PAPER.

A. UNPREPARED TRANSLATION.

(CARIAN COUNCIL OF WAR. SHOULD THEY CROSS THE MAEANDER BEFORE FIGHTING WITH THE PERSIANS?)

Συλληχθέντων δὲ τῶν Καρῶν ἐνθαῦτα ἐγίνοντο βουλαὶ ἄλλαι τε πολλαὶ καὶ ἀρίστη γε δοκέουσα εἶναι ἐμοὶ Πιξωδάρου τοῦ Μανσώλου· τούτου τοῦ ἀνδρὸς ἡ γνώμη ἔφερε διαβάνας τὸν Μαίανδρον τοὺς Κᾶρας καὶ κατὰ νώτου ἔχοντας τὸν ποταμὸν οὕτω συμβάλλειν, ἵνα μὴ ἔχοντες ὀπίσω φεύγειν οἱ Κᾶρες αὐτοῦ τε μένειν ἀναγκαζόμενοι γινοίαιτο ἔτι ἀμείνονες τῆς φύσιος. αὕτη μὲν νυν οὐκ ἐνίκα ἡ γνώμη, ἀλλὰ τοῖσι Πέρσῃσι κατὰ νώτου γίνεσθαι τὸν Μαίανδρον μᾶλλον ἢ σφίσι, δηλαδὴ ἦν φυγὴ τῶν Περσέων γένηται ὥς οὐκ ἀπονοστήσουσι ἐς τὸν ποταμὸν ἐσπίπτοντες.

B. GRAMMAR.

1. Parse the following:—*φθιμένην, κατάκτας, ἀπέσβη, ἐγρηγορώς*; decline—*πούς*; compare—*ἐγγύς, μάκαρ, λάλος*; give the gender and genitive singular of—*οὗς, χθών, γῆρας, νοῦς*.

2. Explain and illustrate by example the uses of *ἄν*.

3. Translate into Greek:—

(a) He said that he would kill all who did not do what he ordered.

(b) He chanced to arrive when the citizens were assembled in the agora.

(c) When he heard what had been done, he marched to Athens with a large army.

C. LITERATURE, ANTIQUITIES, AND HISTORY.

Candidates are requested to select one subject (a) or (b) in each of the following sections:—

- | | |
|--------------|---------------------------------|
| SECTION I. | { (a) Greek lyric poetry. |
| | { (b) The writings of Xenophon. |
| SECTION II. | { (a) Ostracism. |
| | { (b) The Athenian law-courts. |
| SECTION III. | { (a) The siege of Plataea. |
| | { (b) The Thirty Tyrants. |
| SECTION IV. | { (a) Themistocles. |
| | { (b) Nicias. |

B.—DEPARTMENT OF MENTAL PHILOSOPHY.

LOGIC.

(Candidates are required to answer TEN questions, FIVE of which must be selected from Section A and FIVE from Section B of the paper.)

A.

1. What is the theory of Knowledge adopted by Hume? What is its relation to preceding systems? What are its legitimate consequences? Add remarks.

2. State the nature of Reid's reply to Hume. Point out the true character of the doctrine of "Common Sense," and the misrepresentations that have been made of it. Add remarks.

3. Explain the terms Immediate and Mediate, as applied to Knowledge. State and examine the various criticisms of the distinction between Immediate and Mediate Knowledge. Show the metaphysical bearing of the distinction.

4. Classify the Senses. Point out the primary sphere of Sensation and Perception according to the Organic and Locomotive theory. Criticize this theory, and show generally how we build up our knowledge of an external world.

5. Point out the assumptions which have led to idealistic theories of Perception, and examine them. Is there any valid ground, *a priori* or *a posteriori*, for objecting to Intuitive Realism?

6. Can Colour be perceived apart from Extension? Give reasons for your answer. Can Extension be distinguished as visible and as tangible? If so, how?

7. What precisely is meant by the Notion and Principle of Causality? Notice various views on the subject, especially that of Hume.

B.

1. Carefully distinguish between Syllogism, Induction, and Analogy, as methods of reasoning. How are they related to one another?

2. State the cases in which no valid conclusion can be drawn from two premisses, indicating, in each instance, the reason why no inference is possible.

3. What is the distinction between a Logical Law and an Intuition?

4. Enumerate the propositional forms given by Hamilton according to the principle of the Quantified Predicate. How did he derive them from the ordinary classification into A E I O? Explain his notation.

5. Distinguish between Real, Logical, Nominal, and Genetic definition. Give an example of each.

6. In what Moods and Figures are the following Syllogisms? Reduce them.

(a) The nervous fluid will not travel along a tied nerve ;

Electricity will travel along a tied nerve ;

Therefore, Electricity is not the nervous fluid.

(b) No men are birds ;

All birds are animals ;

Therefore, Some animals are not men.

7. Define *Convertens*, *Convertend*, *Conversa*. Convert those propositions; (a) None but the brave deserve the fair; (b) A stitch in time saves nine.

MORAL PHILOSOPHY.

(NINE Questions to be answered.)

A.—*For Students of Session 1889-90 or 1885-6.*

1. How far did Socrates define the moral end, and how did Aristotle improve upon his definition?
2. What was the attitude of Plato in relation to the question of immortality? Compare it with that of Aristotle.
3. What is the *method* followed by Aristotle in the *Ethics*?
4. What is Aristotle's view of the relation of theory and practice in ethics.
5. What are the main points in Aristotle's psychology which affect his *Ethics*?
6. What is the import of Aristotle's doctrine that virtue lies in the mean? Discuss Kant's criticism of it.
7. Give and examine Aristotle's view of Temperance.
8. What is meant by the distinction of the Social and the Political order, and how do they affect each other?
9. Compare the views of Aristotle upon Justice with those of Plato.
10. How far does the Christian maxim "Die to live" agree, and how far does it disagree, with the ethical creed of Aristotle?
11. Explain and discuss Aristotle's doctrine that the good man is the only true lover of himself.
12. What is the relation of Aristotle's ethical doctrine to Hedonism?

B.—*For Students of Session 1888-9 or of any Session before 1885-6.*

1. Give and discuss Hume's view of the origin of our moral ideas.
2. How does Mr. Spencer explain the origin of the *a priori* principles of knowledge? Criticise his view.
3. Analyse the idea of development. Are there any special difficulties in applying it to human history?
4. What are the main characteristics of the Age of Enlightenment?
5. Give and criticise Comte's view of Religion.
6. What are the main ethical doctrines of Bentham? Criticise them.
7. "Science is abstract: hence the need for Philosophy." Explain this statement.
8. Compare the ethical views of Socrates with those of the Stoics.
9. "Morality is self-realization," "Morality is self-sacrifice," "Morality lies in observing the golden mean." Compare these different doctrines.
10. What is the central difference between Pantheism and Monotheism, and to what different moral consequences do they lead?
11. Give and criticise the Greek view of the State.
12. "Freedom lies in obedience to the moral law." Explain and examine this doctrine.

13. What is a casuistical system? How does it endeavour to accomplish its purpose, and what are the main objections to its method?

C.—For Students of Session 1887-8.

1. Give the main points of Plato's life. Can we trace their influence in his moral philosophy?
2. Explain the nature and ethical influence of the Greek religion.
3. Discuss Plato's view of the "noble untruth" of poetry, and of its use in education.
4. Compare the views of Hobbes and Rousseau as to the Social Contract.
5. "It is in the nature of things that practice should fall short of theory." What is Plato's reason for this doctrine, and how far does he carry it in the Republic?
6. Discuss the relations of the Social and the Political order.
7. How far can we attribute to Plato an *organic* view of the State?
8. What does Plato mean by the idea of good, and what use does he make of it in the Republic?
9. Compare the Platonic view of Justice with that developed in the later law of Rome.
10. How far is the Family to be regarded as a rival of the State? Discuss Plato's view.
11. Discuss Plato's view of Immortality.
12. Compare Plato's Socialism with any modern system of Socialism.

D.—For Students of Session 1886-7.

1. What is Kant's view of the relations of Dogmatism, Scepticism, and Criticism?
2. What is Kant's view of the relation of Practical to Theoretical Reason?
3. "There is nothing absolutely good but a good will." How does Kant prove this? Examine his argument.
4. Discuss Kant's first formula for the moral law.
5. Give and discuss Kant's view of the relation of our duties to ourselves to our duties to others.
6. "Freedom is the power of arbitrarily choosing our own motions." "Freedom lies in obedience to the moral law." Does Kant adopt either of these views? Discuss them.
7. Discuss the Kantian doctrine of penal justice.
8. Discuss Kant's conception of a "kingdom of ends." Can it, in Kant's view, be realized; or, if not, why not?
9. Examine Kant's view as to the relation of Morality to Religion.
10. What is Casuistry? Does Kant's view of the moral principle lead to casuistical difficulties?
11. Give and examine Kant's view of the nature and defects of Hedonism.
12. What is Kant's view of the feeling created in us by the moral law?

ENGLISH LANGUAGE AND LITERATURE.

[Answer NINE Questions, taking TWO from A, THREE from B, ONE from C, and ONE from D; the remaining TWO may be taken from any part of the Paper.]

A. COMPOSITION AND PHILOLOGY.

1. Criticise and correct, where necessary, the following sentences; name the figures of speech used:—

(a) "The farmstead was always the wooden, white-painted house of which all the small country towns are composed."

(b) "Nothing but dreary dykes, muddy and straight, guarded by the ghosts of suicidal pollards, and by rows of dreary and desolate mills, occur to break the blank grey monotony of the landscape."

(c) "John Keats, the second of four children, like Chaucer and Spenser, was a Londoner."

(d) "Crippled by no creed, but rather questioning all, Ouida's outlook upon Nature is wide."

(e) "There are torches of Miltiades in every battlefield of academic or national struggles, of which the sight or remembrance ought for ever to prevent the young Themistocles from sleeping."

(f) "To the wisest and best of men I dedicate these volumes. Those for whom it is intended will accept the compliment; those for whom it is not will do the same."

(g) "Of the nineteen tyrants who started up under the reign of Gallienus there was not one who had enjoyed a life of peace or a natural death."

2. Define Metonymy, Prolepsis, Euphemism, Euphuism. Give an example of each.

3. What are the principal modes of dealing with the confused Relative in English? Illustrate your answer.

4. Describe briefly (a) the peculiarities which distinguish the Teutonic languages from the rest of the Indo-European family; (b) the position of English among the Teutonic languages.

5. In what sense can English be called a mixed language?

6. What were the three main English dialects used in the island in the 13th and 14th centuries? How did they come to exist? What are their chief peculiarities?

B. HISTORY OF LITERATURE FROM 1350.

7. Give the approximate dates, and the names of the authors, of the following works, and state in a few words to what species of literature they severally belong:—*The Temple*, *The Schoolmaster*, *Annus Mirabilis*, *A Legend of Good Women*, *The Traveller*, *Confessio Amantis*, *Venice Preserved*, *The Prelude*, *The Golden Targe*, *The Anatomy of Melancholy*, *The Revolt of Islam*, *Past and Present*, *A Tale of a Tub*, *Morte d'Arthur*, *The Ring and the Book*, *Humphrey Clinker*.

8. Consider any two of the following writers as representatives of their times:—Langland, Dunbar, Bacon, Milton, Swift, Wordsworth, Carlyle.

9. Write a list, with authors' names and dates, *either* of English Allegories *or* of English Satires; and compare any two allegories *or* any two satires.

10. Briefly describe the design of the *Canterbury Tales*, and describe and illustrate Chaucer's attitude towards chivalry and the religious ideas of his time.

11. Show by reference to great Elizabethan writers the various influences of the Revival of Classical Learning.

12. Give a brief account of the writings *either* of Dryden *or* of Pope, and explain the position of the writer in the history of English poetry.

13. Show what kinds of literature flourished best in England in the fifty years before the French Revolution.

14. Illustrate, and discuss the significance of, the prevalence of narrative poetry in England from 1790 to 1830.

C. MACBETH.

15. Sketch the action of the play *either* (a) from the murder of Duncan to the Banquet Scene (including the latter) *or* (b) from the Banquet Scene to the death of Lady Macbeth (including the latter); and discuss the character of Macbeth as it appears in the selected part of the play.

16. Discuss the question *either* of the date of *Macbeth* *or* of the genuineness of the Porter's speeches.

17. Explain with reference to the context—

(a) function

Is smothered in surmise, and nothing is
But what is not.

(b) If it were done when 'tis done, then 'twere well
It were done quickly: if the assassination
Could trammel up the consequence, and catch
With his surcease success.

(c) Memory, the warder of the brain,
Shall be a fume, and the receipt of reason
A limbec only.

(d) We have scotch'd the snake, not kill'd it:
She'll close and be herself.

(e) with an absolute 'Sir, not I,'
The cloudy messenger turns me his back,
And hums.

(f) A good and virtuous nature may recoil
In an imperial charge.

(g) He has no children.

(h) I must fight the course.

D. NONNE PRESTES TALE.

18. Tell in your own words the tale of the Nun's Priest, omitting Chauntecleer's stories of dreams.

19. Write in modern English and explain fully—

(a) By nature knew he ech ascencioun
Of equinoxial in thilke toun.

(b) Macrobeus that writ the avisioun
In Affrike of the worthy Cipionn.

- (c) For, also siker as *In principio*,
Mulier est hominis confusio.
 (d) Or Boece, or the bishop Bradwardyn.
 (e) But for I not to whom it mighte displese,
 If I counseil of wommen wolde blame,
 (f) Why woldestow suffre him on thy day to dye?
 (g) Certes, he Jakke Straw, and his meyné,
 Ne maden nevere schoutes half so schrille,
 Whan that they wolden eny Flemyng kille.

20. (a) Explain 'hire catel and hire rente'; 'loken in every lith'; 'reede *colera*'; 'so mot I the'; 'do thilke carte arresten'; 'forslouthe wilfully thy tyde'; 'pryme'; 'ndern'; 'no thing ne liste him thanne for to crowe'; 'young and nyce'; 'as wis God helpe me.'

(b) Give Chaucer's forms for the modern 'daughters,' 'cows,' 'egg,' 'toes,' 'them,' 'their,' 'those,' 'came,' 'such,' 'loathsome,' 'hearken' (imperative), 'one,' 'will,' 'birds,' 'morning,' 'two.'

C.—DEPARTMENT OF MATHEMATICS.

MATHEMATICS.

FIRST PAPER.

1. Show that two straight lines are parallel to one another, if a straight line falling upon them make the exterior angle equal to the interior and opposite on the same side of the line, or if it make the two interior angles on the same side of the line together equal to two right angles.

State and discuss Euclid's 12th axiom.

2. If a side of a triangle be produced, the exterior angle is equal to the two interior angles, and the three interior angles are together equal to two right angles.

The side BC of a triangle ABC is produced to D , and the angles ABC , ACD are bisected by straight lines meeting in E . Prove that the angle BEC is half the angle BAC .

3. If a parallelogram and a triangle be on the same base and between the same parallels, the parallelogram is double of the triangle.

4. In an obtuse-angled triangle the square on the side subtending the obtuse angle exceeds the sum of the squares on the sides containing that angle by twice the rectangle contained by either of these sides and the part of that side produced to meet the perpendicular from the opposite angle.

The sum of the squares on any two sides of a triangle is equal to twice the square on half the third side together with twice the square on the line joining the middle point of that side to the opposite angular point.

5. The opposite angles of a quadrilateral inscribed in a circle are together equal to two right angles.

$ABCD$ is any quadrilateral; the bisectors of the angles A and B meet in C' , those of B and C in D' , those of C and D in A' , and those of D and A in B' ; prove that $A'B'C'D'$ can be inscribed in a circle.

6. In a circle the angle in a semicircle is a right angle; the angle in a segment of a circle greater than a semicircle is less than a right angle, and the angle in a segment of a circle less than a semicircle is greater than a right angle.

The locus of the middle points of all chords of a circle which pass through a given point is a circle whose diameter is the straight line joining the given point to the centre.

7. Construct a triangle each of whose base angles is double the vertical angle.

Divide a right angle into 10 equal parts.

8. State Euclid's definition of proportionals and apply it to show that in equal circles two arcs are proportional to the angles they subtend at the centres.

9. When is a straight line said to be cut harmonically? Show that the internal and external bisectors of the vertical angle of a triangle divide the base harmonically.

10. Similar triangles are to one another in the duplicate ratio of their homologous sides.

11. The rectangle contained by the diagonals of a quadrilateral inscribed in a circle is equal to the sum of the rectangles contained by the opposite sides.

If ABC be an equilateral triangle inscribed in a circle, D any point in the arc BC , prove that $AD = BD + CD$.

12. What is the polar of a given point with respect to a given circle? Prove that if the polar of A with respect to a given circle pass through B , the polar of B will pass through A .

SECOND PAPER.

[Candidates for B.Sc. in Engineering are requested to omit questions 1-8 inclusive, and take questions after 14 instead.]

1. Find the quotient and remainder when $x^5 - 5x^4 + 6x^3 + 9x^2 - 2x + 13$ is divided by $x^2 - 3x + 2$.

2. Simplify (i) $\left(\frac{x+a}{a} + \frac{a}{x}\right)\left(\frac{x+a}{x-a} - \frac{x-a}{x+a}\right) \div \left(\frac{x+a}{x-a} + \frac{x-a}{x+a}\right)$;

$$(ii) \frac{3}{8(1-x)} + \frac{1}{8(1+x)} + \frac{1}{4(1-x)^2} + \frac{1+x}{4(1+x^2)}.$$

3. Find the Least Common Multiple of the expressions $x^4 - 9x^3 + 31x^2 - 54x + 40$ and $x^3 - 4x^2 - 4x + 16$.

4. Solve the equations

$$(i) \frac{2x+1}{3} - \frac{3x-2}{5} + \frac{5x - \frac{x+\frac{8}{5}}{2}}{6} = 8\frac{2}{3};$$

$$(ii) \begin{cases} (x+7)(y+5) = (x-3)(y+1) + 96 \\ (x+4)(y-2) = (x+5)(y-2) - 3 \end{cases};$$

$$(iii) 9x - 7y - 8z = 3x + 3y + 4z = 2(x + y + z) = 4.$$

5. A cistern has two supply pipes A and B , and there is a leak in the bottom. A alone fills the cistern in 4 hours, B in 5 hours, and together they fill it in 2 hours. If the cistern were full, and both pipes closed, in what time would the leak empty the cistern? [The leak is supposed to be always running.]

6. Find the condition that the roots of the equation $ax^2 + bx + c = 0$ should be equal.

If the roots of the equation $x^2 + ax + a - 1 = 0$ be equal, show that each of them is equal to -1 .

7. Solve the equations (i) $\frac{3x-1}{8} - \frac{4x+1}{7} = \frac{10}{x-9} - 5$;

(ii) $\sqrt{2x^2 - 5x - 3} + x = \frac{2x^2 + 3}{5}$;

(iii) $x^2 + 3xy = 22$; $2y^2 - xy = 12$.

8. If $a : b = b : c = c : d$, show that $\frac{a}{d} = \sqrt{\frac{a^3c + b^4 + abcd}{c^4 + bd^3 + d^4}}$.

9. Sum the series (i) $49, 44\frac{2}{7}, 39\frac{4}{7}, \dots$, to 15 terms;

(ii) $\cdot 45, \cdot 015, \cdot 0005, \dots$, to 8 terms;

(iii) $18, -12, 8, \dots$, to infinity.

10. Show how to determine the characteristic of the logarithm of a number greater than unity to the base 10.

Calculate by means of your tables $\log(\sqrt[3]{48 \times 108^{\frac{1}{3}} \div 6^{\frac{1}{2}}})$.

11. Define the sine, cosecant, cotangent of an angle, and find the relations between them. Trace the changes in their values as the angle changes from 90° to 270° .

Solve the equation $\cot^2 x + 8 \sin^2 x = 5$.

12. Express the cosine of the sum of two angles in terms of the sines and cosines of these angles.

Show that $\sin^2 \alpha + \sin^2 \beta + 2 \sin \alpha \sin \beta \cos(\alpha + \beta) = \sin^2(\alpha + \beta)$.

13. Prove the following relations between the sides and angles of a triangle:

(i) $a^2 = b^2 + c^2 - 2bc \cos A$; (ii) $\tan \frac{A}{2} = \sqrt{\frac{(s-b)(s-c)}{s(s-a)}}$.

14. Solve completely the triangle $a = 16 : b = 21 : A = 29^\circ 51'$, explaining why we get the solutions.

[For B.Sc. Candidates only.]

15. The Arithmetic, Geometric, and Harmonic means between two quantities are in Geometrical Progression.

If a, b, c be the m th, $(m+1)$ th, and $(m+n)$ th terms of a Harmonical Progression, prove that $b(a-c) = nc(a-b)$.

16. Define a logarithm, and prove that $\log xy = \log x + \log y$.

Show also that $\log \frac{1+3x}{1-x} = 4x - 4x^2 + \frac{28}{3}x^3 - \dots$,

and find the general term of the series.

17. Find the coefficient of x^4 in the expansion of $(1-3x)^{\frac{1}{2}}(1+x)^{-\frac{1}{2}}$.

18. In any triangle, prove that

$$\frac{abc}{R} = \frac{a^2 + b^2 + c^2}{\cot A + \cot B + \cot C} = 4 \text{ (area of triangle),}$$

where R is the radius of the circumscribing circle.

19. What is meant by $\tan^{-1}x$? Find the tangent of the angle

$$\tan^{-1} 3 + 3 \tan^{-1} 7 + \tan^{-1} 26 - \frac{\pi}{4}.$$

20. Solve the cubic equation $24x^3 - 6x = 1$.

21. Prove De Moivre's Theorem; and explain the geometrical meaning of the symbol $\sqrt{-1}$.

NATURAL PHILOSOPHY.

FIRST PAPER.

1. Distinguish between the Absolute and Gravitational Units of Force; and explain why the latter cannot be taken as our standard.

Find the absolute measure of a force which, acting on a mass of 1 kilogramme for 1 minute, produces in it a velocity of 1 metre per second.

2. State and prove the proposition known as the Triangle of Forces; and explain how forces can be represented by straight lines.

A particle is kept at rest by three forces which are in the ratios 5 : 12 : 13; show that two of them are at right angles.

3. Define the moment of a force about a point, and show that the algebraical sum of the moments of two forces meeting in a point, about a point in their plane, is equal to the moment of their resultant about that point.

4. Define Centre of Gravity, and show how to find the Centre of Gravity of a system of masses arranged at intervals along a straight line.

A uniform rod, 6 feet long, balances about a point 18 inches from one end, when weights of 14 lbs. and 3 lbs. are suspended from the ends. If the same weights be suspended from points distant 1 foot from each end, find the point about which the rod will balance.

5. Show that a body resting on a horizontal plane will stand or fall according as the vertical through its centre of gravity falls within or without the base.

$ABCD$ is a square; and a portion CEF is removed, EF being parallel to the diagonal BD . Find the greatest part that can be removed so that the remainder will stand on DE as base.

6. State the Laws of Statical Friction and explain how they can be verified experimentally.

Find the least horizontal force which will support a mass of 12 lbs. on an inclined plane of 1 in 30, the co-efficient of friction being $\frac{2}{3}$.

7. How is the velocity of a point measured, and also the velocity of one point relative to another?

A train is travelling at the rate of 40 miles an hour, and a shower of rain is driven by the wind in the same direction as the train is moving, so that the drops fall in a direction making an angle $\tan^{-1} \frac{4}{3}$ with the

vertical. To an observer in the train they appear to fall vertically. Find the average velocity of the rain drops in feet per second.

8. Describe Atwood's Machine and explain how it can be used to verify the laws of falling bodies.

Two scale pans, each of mass 1 lb., are connected by a long weightless string passing over a smooth pulley. The inertia equivalent of the pulley being 8 oz., show how to divide a mass of 10 lbs. between the scale pans, so that the system may fall 64 feet in 5 seconds.

9. Find the position at any instant of a stone projected in a given direction with a given velocity.

A stone is thrown from the top of a tower 144 feet high, with a velocity of 80 feet per second in a direction making an angle of 30° with the horizon. Find where it strikes the plane at the base of the tower.

10. Define 'work' and state how it is measured. What are the different units of work commonly used in Dynamics?

Find the work done by a twelve stone man in climbing a mountain 4000 feet high, assuming that the difficulties in the way are equivalent to carrying a weight of 3 stones.

11. Define the Hodograph and explain its use.

Assuming that the velocity of the point in the Hodograph represents the acceleration of the point in its path, deduce (or prove independently) that the normal acceleration of a body, moving with uniform velocity v in a circle of radius r , is $\frac{v^2}{r}$.

12. Investigate the length of the seconds' pendulum; and show that if a seconds' pendulum be taken to the bottom of a mine $\frac{1}{3}$ of a mile deep, it will lose $3\frac{2}{3}$ seconds per day.

VOLUNTARY QUESTIONS.

13. Trace the changes in the length of the day throughout the year.

14. Describe any experiment in proof of the rotation of the earth.

15. Define the terms:—zenith distance, latitude, right ascension, sidereal time, mean solar time, parallax.

16. State Kepler's Laws and Newton's Deductions from them.

17. Explain what is meant by the Precession of the Equinoxes; and point out any consequences of Precession.

SECOND PAPER.

(Also for Degree of B.Sc.)

1. Define "a modulus of elasticity."

Define "Young's Modulus" and the "length modulus" for longitudinal extension.

A steel wire, which weighs 50 lbs. per nautical mile (6,000 feet), is stretched by a weight of 28 lbs. Find the speed of a longitudinal pulse.

2. A rectangular board, 7 feet long and $3\frac{1}{2}$ broad, is placed under water with its long edge horizontal, and 5 feet below the surface. Find the pressure on the board (1) when the plane of the board is inclined at 45° to the horizontal; (2) when its plane is vertical.

3. Calculate the "height of the homogeneous atmosphere," taking the barometric height as 30 inches, the density of mercury compared with water as 13.6, and that of air as .001293.

In ascending through 10 feet of the atmosphere the atmospheric pressure is diminished by $\frac{1}{26000}$. How much is it reduced by an ascent of 650 feet?

4. The "Newtonian velocity of sound" is 918.5 feet per second at 0° C. The actual velocity is 1092 feet per second. What is the explanation of the correction to be applied to the Newtonian velocity; and what closely connected physical ratio does the number 1.41 represent?

Find the velocity of sound in hydrogen gas at 0° C.

[Density of hydrogen $\frac{1}{14.43}$ of that of air.]

5. Describe the vibrations of the air in organ pipes sounding the fundamental note and the first and second harmonics.

(1) Organ pipe open at both ends.

(2) " " closed at one end.

If the organ pipes are of the same length, how are the several notes related?

6. Make sketches to show the capillary surfaces of (1) water, and (2) mercury, inside and outside capillary tubes dipped into large troughs which contain those liquids. What are the air angles of contact of clean water and glass, and of clean mercury and glass?

How high does water rise in a capillary tube $\frac{1}{32}$ inch. in diameter?

[Tension of water film, 3 grains per lineal inch.]

7. Describe a practical constant volume air thermometer, and explain how to use it. What is meant by absolute zero on the air thermometer? How is absolute temperature in Centigrade degrees related to Centigrade temperature?

8. State Newton's law of cooling. Define emissivity of a surface for heat.

A metallic globe warmed to 150° C. is hung up in a chamber at 17° C. and is found to cool down to 146° in one minute. Find its temperature after 30 minutes.

9. Describe the reflecting polariscope.

Define "plane of polarization."

State what you know as to the relation between direction of vibration in plane polarized light and "plane of polarization."

10. Describe any terrestrial experiments for finding the velocity of light. Explain how a comparison of the velocities of light in different mediums affords a crucial test between the emission theory and the undulatory theory of light.

11. What is meant by specific inductive capacity in electro-statics? How did Faraday compare the specific inductive capacities of various materials? On what particulars does the capacity of a leyden jar depend?

12. State the laws of electric attraction and repulsion. Explain how they are established otherwise than by the torsion balance.

13. Describe the tangent galvanometer. State Ohm's law. Define one ampere and one volt, assuming the definition of the absolute centimetre-gramme-second unit of electric resistance.

II.—FOR DEGREE OF M.A. WITH HONOURS.

(AND FOR SNELL EXHIBITION.)

LATIN TRANSLATION.

Translate :—

- (a) Virg. *Æn.* X., 362-372.
- (b) Horat. *Od.* III., 19, 1-8.
- (c) Horat. *Sat.* II., 4, 70-77.
- (d) Juv. *Sat.* VIII., 183-194.
- (e) Cic. *Phil.* V., 47-48.
- (f) Tacit. *Annal.* II., 45.
- (g) Lucret. II., 355-366.
- (h) Mart. *Epigr.* IV., 51.
- (i) Catull. *Carm.* XXVII.
- (k) Plaut. *Bacch.* I. ii., 39-57.
- (l) Seneca *De Tran. An.* VI., 2-5.

LATIN PROSE.

In truth, Sir, he was the delight and ornament of this House, and the charm of every private society which he honoured with his presence. Perhaps there never arose in this country nor in any other country, a man of more pointed and finished wit; and (where his passions were not concerned) of a more refined, exquisite and penetrating judgment. If he had not so great a stock, as some have had who flourished formerly, of knowledge long treasured up, he knew better by far than any man I ever was acquainted with how to bring together, within a short time, all that was necessary to establish, to illustrate, and to decorate that side of the question which he supported. He stated his matter skilfully and powerfully. He particularly excelled in a most luminous explanation and display of his subject. His style of argument was neither trite and vulgar, nor subtle and abstruse. He hit the House just between wind and water. And not being troubled with too anxious a zeal for any matter in question, he was never more tedious or more earnest than the preconceived opinions and present temper of his hearers required, to whom he was always in perfect unison. He conformed exactly to the temper of the House; and he seemed to guide, because he was also sure to follow it.

GREEK TRANSLATION.

Translate :—

- (a) Homer, *Od.* XI., 184-196.
- (b) Æsch. *Agam.*, 958-972.
- (c) Soph. *O. T.*, 1197-1203.
- (d) Aristoph. *Nubes*, 1353-1365.
- (e) Thucyd. IV., 18.
- (f) Thucyd. VI., 42.
- (g) Plato, *Phædo.*, XLIV.
- (h) Lucian, *Vera Historia* II., 131-132.
- (i) Callimachus, *Hymn* III., 1-14.

GREEK PROSE.

But the cases of Coreyra and of Athens, different in so many respects, conspire to illustrate another truth, of much importance in Grecian history. Both of them show how false and impudent were the pretensions set up by the rich and great men of the various Grecian cities, to superior morality, superior intelligence, and greater fitness for using honourably and beneficially the powers of government, as compared with the mass of the citizens. Though the Grecian oligarchs, exercising powerful sway over fashion, and more especially over the meaning of words, bestowed upon themselves the appellation of 'the best men, the honourable and good,' and the like, and attached to those without their own circle epithets of a contrary tenor, implying low moral attributes, no such difference is borne out by the facts of Grecian history. The rich and great men were exempted by their position from some of the vices which beset smaller and poorer men, but they imbibed from that same position an unmeasured self-importance, an excess of personal ambition as well as of personal appetite, peculiar to themselves, not less anti-social in tendency, and operating on a much grander scale. To the prejudices and superstitions belonging to the age, they were in no way superior, considering them as a class; while their animosities among one another, virulent and unscrupulous, were among the foremost causes of misfortune in the Grecian Commonwealths.

GENERAL PAPER.

LATIN.

A.

1. Translate with short notes :—
 - (a) Fors et vota facit, cumulatque altaria donis.
 - (b) Alitis in parvae subitam collecta figuram.
 - (c) Quibus haec medii fiducia valli
Fossarumque morae, leti discrimina parva,
Dant animos.
 - (d) Non magis te audierit quam Fufius ebrius olim
Cum Ilionam edormit, Catienis mille ducentis
Mater te adpello clamantibus.
 - (e) Tu nisi ventis
Debes Indibrium cave.
 - (f) Antoni gladios potuit contemnere si sic
Omnia dixisset.
 - (g) Illam suam suas sibi res habere iussit, ex duodecim tabulis
claves ademit, exegit.
 - (h) Purgatas inseris aures
Fruge Cleanthea.
2. Give an account of the Roman elegiac poets.
3. Mention and illustrate by quotations the principal Greek constructions employed by Latin authors.

B.—Two questions only to be attempted.

1. The ordo equester.
2. The second triumvirate.
3. The Carthaginians in Spain.
4. The government of the provinces under the empire.

GREEK.

A.

1. Translate with short notes :—

- (a) Ἀμφὶ δέ μιν φῶκαι νέποδες καλῆς ἀλoσύδνης
ἀθροαὶ εὐδουσιν.
- (b) Θύρην δ' ἐπέρυσσε κορώνη
ἀργυρέη, ἐπὶ δὲ κληῖδ' ἐτάνυσσεν ἱμάντι.
- (c) Πομπὴν δ' ἐς τόδ' ἐγὼ τεκμαίρομαι, ὅφρ' εὖ εἰδῆς,
αὔριον ἔς· τῆμος δὲ σὺ μὲν δεδμημένος ὕπνῳ
λέξεις, οἱ δ' ἐλώσι γαλήνην, ὅφρ' ἂν ἴκηαι
πατρίδα σὴν καὶ δῶμα.
- (d) Σπενδόμεναι δ' ἀφελεῖν τινὰ τάσδε μερίμνας,
θεῶν δ' ἀτέλειαν ἐμαῖσι λιταῖς ἐπικραίνειν
μηδ' εἰς ἄγκρισιν ἐλθεῖν.
- (e) Καὶ μεῖζον ἄρα ῥύσιον πόλει τάχα
θήσεις· ἐφάψομαι γὰρ οὐ ταύταιν μόναιν.
- (f) Καὶ ἐνθένδε ἄνδρες οὔτε ὄντα οὔτε ἂν γενόμενα λογοποιούσιν.
- (g) Ἴσως οὖν βέλτιστόν ἐστιν, ὥς ἄρτι ἐγὼ ἐπεχείρησα, διαιρεῖσθαι,
διελομένους δὲ καὶ ὁμολογήσαντας ἀλλήλοις, εἰ ἔστι τούτῳ διττῷ τῷ βίῳ,
σκέψασθαι τί τε διαφέρετον ἀλλήλοιν καὶ ὁπότερον βιωτέον αὐτοῖν.
2. Greek pastoral poetry.
 3. The Attic orators.

B.—Two questions only to be attempted.

1. The Olympic festival.
2. The Grecian despots.
3. The legislation of Lycurgus.
4. Epaminondas.

LOGIC.

FIRST PAPER.

Answer SEVEN questions.

1. How does Herbart show that self-consciousness is an illusion? Discuss his view, making reference to the doctrines of Hamilton, Kant, and Green.
2. Is there any parallel between the Psychology of Liebnitz and that of Lotze? Point out the main advantages incident to their psychological standpoint.
3. What metaphysical conclusions did Berkeley reach by the aid of his "judgments of suggestion"? Criticize his doctrine and compare it with Reid's.

4. How far do Kant and Hamilton agree, and how far differ, in their accounts of Space and Time? Critically estimate the consequences of their divergence.

5. "The relations by which, in a *false* belief as to a *matter of fact*, we suppose the event to be determined, are not non-existent. They are *really objects* of a conceiving consciousness." Criticize this, pointing out in particular, what deductions can be drawn from it.

6. "Either the infinite ego is, and it is all, every ego, and I am not; or I am, this definite ego or personality, and what I call an infinite ego subsists only in me or as I am conscious." Can Idealistic Monism escape this dilemma? What are the consequences which acceptance of it implies?

7. What is 'Pure Intellection' according to Descartes? Is there anything corresponding to it in the doctrines of Schelling and Hegel?

8. Is reality convertible with relation? Examine theories on this point.

9. How far may the Theætetus be regarded as a polemic upon the Cyrenaics? Show very precisely how Plato convicts the Post-Socratics of unfaithfulness to their master.

10. Examine the following:—"If the Me is one thing, extension another thing, it is that extension is an extrinsic property of certain states of Consciousness, without assignable reason; it is that Consciousness exists before itself."

SECOND PAPER.

(Answer SEVEN questions.)

1. What according to Hegel, is the defect of the Syllogism of Induction (P — I — U)? Discuss his view, comparing it with that of Mill.

2. If the *Dictum de omni et nullo* be the paramount rule for all perfect inference, is Reduction an indispensable part of the doctrine of Syllogism?

3. Contrast Kant's application of the terms *a priori* and *a posteriori* to Judgment with that of Aristotle.

4. "Crime may be quoted as an objective instance of the negatively infinite judgment." What view of Logical Judgment (qualitative) is here involved? Point out its bearings very fully.

5. What is the logical difference between Reasoning from Example and Reasoning by Induction? Refer to Aristotle.

6. "A judgment can be derived from another judgment (materially different from it), and find in it its sufficient reason only when the (logical) connection of thoughts corresponds to a (real) causal connection." Consider the adequacy of this statement of the Principle of Sufficient Reason.

7. What is the point of connection between the Metaphysics and the Logic of Aristotle? How does it influence his doctrine of Substance?

8. Show precisely how Mill's Canons are supplementary to one another.

9. Outline Hamilton's doctrine of reasoning in Comprehension. To what objections is it liable?

10. "If it is better for men to obtain happiness through their own exertions than through chance, it is reasonable to suppose that this will be the case, since everything that depends upon Nature is in the best possible condition." (*Eth. Nic.*) Logically examine this argument. Is it wholly fallacious?

MORAL PHILOSOPHY.

FIRST PAPER.

1. Examine Plato's arguments for immortality. What view of immortality do they support?

2. What are the merits and defects of Aristotle's psychology?

3. Examine Aristotle's attempt, in the seventh book of the *Ethics*, to connect his own doctrine as to the relation of knowledge and virtue with that of Socrates.

4. What is Spinoza's view of 'Self-disparagement'? Compare it with Green's account of 'Conscientiousness,' and Aristotle's conceptions of 'Shame' and 'Humility.'

5. Criticise the mediaeval classification of the virtues under the two heads of the cardinal and the theological virtues.

6. Is there any difference between the views of the 'Thing in itself' or 'Noumenon' presented in the different parts of the *Critique of Pure Reason*, and, if so, what is its import?

7. How does Kant attempt to overcome the difficulties incident to the formalism of his moral principle by introducing the idea of a Type? Criticise his view.

8. Explain how Mr. Sidgwick proposes to suppress Egoism by the rules of Benevolence and Equity? Does he succeed in proving that Hedonistic morals can be other than Egoistic?

9. What is the moral significance of the state of mind commonly termed a conflict of desires?

SEVEN questions to be answered.

SECOND PAPER.

1. "Error negated is a necessary element of truth." Does this suggest a satisfactory solution of the problem of evil?

2. What are the main difficulties in the application of the idea of development to the moral nature of man?

3. What are the main points of difference between the legal and ethical bonds of the State and those of the Family?

4. "Freedom contradicts the causal connexion of the cosmos." "Freedom contradicts statistics." "The law of determination by motives excludes freedom." Consider these different objections to the idea of freedom.

5. Is the distinction of will and reason an absolute one, and, if not, from which point of view may they be identified?

6. Can Liberty, Equality, and Fraternity be united, and, if so, in which term are we to find the principle of unity?

7. "The rights of the religious consciousness ought to be respected." "Science must be left free and unchecked." Are these demands mutually incompatible?

8. "Law and morals lose their meaning when not viewed in relation to each other." Explain and examine this.

9. "Nothing can be more one-sided than Hegel's speculative construction of History, which regards the universal will as the only objective ethical force, and treats the individuals as its unconscious instruments." Discuss the justice of this criticism.

SEVEN questions to be answered.

MATHEMATICS.

FIRST PAPER.

1. The feet L, M, N of the perpendiculars let fall on the sides of a triangle from any point P in the circumference of the circumscribing circle are collinear.

If the line LMN , produced if necessary, meet the perpendiculars from A, B, C on the opposite sides of the triangle in G, H, K , and O be the orthocentre, show that $PLOG, PMOH, PNOK$ are parallelograms.

2. The circle circumscribing the triangle formed by any three tangents to a parabola goes through the focus.

If PQR be the triangle: p, q, r the points of contact of the sides QR, RP, PQ respectively, show that $PQ \cdot PR = Rq \cdot Qr$.

3. In an ellipse, if PG be the normal at P , meeting the major axis in G , and CD the semi-conjugate diameter, prove that $PG : CD :: CB : CA$.

If the normal at P meet the axes in G, g , and the tangents at P and D meet in T , show that the angles PTG and PgT are equal.

4. Define a determinant; and show that if the constituents of any row or column be increased or diminished by any equi-multiples of the corresponding constituents of one or more of the other rows or columns, the determinant is unaltered in value.

Prove that

$$\begin{vmatrix} a^2 + \lambda & ab & ac & a^2 \\ ab & b^2 + \lambda & bc & b^2 \\ ac & bc & c^2 + \lambda & c^2 \\ a & b & c & 0 \end{vmatrix} = -\lambda^2(a^3 + b^3 + c^3).$$

5. Assuming the Binomial Theorem for a positive integral exponent, prove it for any exponent.

Prove that the following series are identical:—

$$1 + \frac{1}{2^3} + \frac{1 \cdot 3}{1 \cdot 2} \cdot \frac{1}{2^6} + \frac{1 \cdot 3 \cdot 5}{1 \cdot 2 \cdot 3} \cdot \frac{1}{2^9} + \frac{1 \cdot 3 \cdot 5 \cdot 7}{1 \cdot 2 \cdot 3 \cdot 4} \cdot \frac{1}{2^{12}} + \dots$$

and

$$1 + \frac{1}{6} - \frac{1}{1 \cdot 2} \cdot \frac{1}{6^2} + \frac{1 \cdot 3}{1 \cdot 2 \cdot 3} \cdot \frac{1}{6^3} - \frac{1 \cdot 3 \cdot 5}{1 \cdot 2 \cdot 3 \cdot 4} \cdot \frac{1}{6^4} + \dots$$

6. Sum the following series to n terms:—

(i) $1^2 + 2^2 + 3^2 + \dots$

(ii) $1 \cdot 3 \cdot 6 + 2 \cdot 4 \cdot 7 + 3 \cdot 5 \cdot 8 + \dots$

(iii) $\frac{4}{1 \cdot 2 \cdot 3} + \frac{5}{2 \cdot 3 \cdot 4} + \frac{6}{3 \cdot 4 \cdot 5} + \dots$

7. Define a differential coefficient, and obtain from your definition, without reference to rules, the differential coefficients of $\sin(a+bx^n)$, $\log(x+\sqrt{x^2+1})$. Deduce the expansion

$$\log(x+\sqrt{x^2+1}) = x - \frac{1}{2} \cdot \frac{x^3}{3} + \frac{1 \cdot 3}{2 \cdot 4} \cdot \frac{x^5}{5} - \frac{1 \cdot 3 \cdot 5}{2 \cdot 4 \cdot 6} \cdot \frac{x^7}{7} + \dots$$

8. Show how to find the asymptotes of a curve whose equation is given in the form $(ax+byc)\phi_{n-1}+\psi_{n-1}=0$, where ϕ_{n-1} , ψ_{n-1} are functions of x and y of degree $n-1$.

Find the asymptotes of the curve $(x^2-y^2)(x-2y)+x^2-xy-6y^2=0$.

9. Find the expression $\rho = p + \frac{d^2p}{d\psi^2}$, for the radius of curvature of a plane curve, pointing out the geometrical meaning of each term of the equation.

Apply to the parabola; and show that the polar co-ordinates of the centre of curvature referred to the focus are given by the relations

$$r^2 = \frac{a^2}{\sin^4\psi} (1 + 4 \cot^2\psi) : \tan(\theta) = \frac{2 \cot^3\psi}{1 + 3 \cot^2\psi}.$$

10. Integrate $\int \operatorname{cosec} \theta d\theta$, $\int \frac{dx}{1 + \cos a \cos x}$, $\int \frac{dx}{(px+q)\sqrt{a+2b+cx^2}}$.

Show how $\int \frac{dx}{(a+b \cos x)^n}$ can be made to depend on $\int \frac{dx}{a+b \cos x}$,

when n is a positive integer.

11. Evaluate the definite integrals

$$\int_0^\infty e^{-a^2x^2} dx, \quad \int_0^\infty e^{-a^2x^2} \cos bx dx, \quad \int_0^\pi \frac{dx}{(1-e \cos x)^2}.$$

Find the whole area of the curve $x^4+y^4=a^2(x^2+y^2)$.

12. Show that the area of a curve, divided into n parts by $n+1$ equidistant ordinates $u_0u_1\dots u_n$, is given approximately by

$$\int_0^n u_x dx = nu_0 + \frac{n^2}{2} \Delta u_0 + \left(\frac{n^3}{3} - \frac{n^2}{2}\right) \frac{\Delta^2 u_0}{1 \cdot 2} + \left(\frac{n^4}{4} - n^3 + n^2\right) \frac{\Delta^3 u_0}{1 \cdot 2 \cdot 3} + \dots$$

Find the area when there are four ordinates at unit distance apart.

SECOND PAPER.

1. If a straight line be perpendicular to each of two straight lines at their point of intersection, it is perpendicular to the plane passing through these two straight lines.

From the middle point of a regular hexagon a straight line is drawn at right angles to the plane of the hexagon, and the angular points of the hexagon are joined to a point on this line whose distance from each angular point is equal to twice the length of the side of the hexagon; prove that the angle between two lateral faces of the solid so formed is $\cos^{-1}(-\frac{3}{5})$.

2. Find expressions for the radii of the inscribed and escribed circles of a triangle.

If I be the centre of the inscribed circle of a triangle ABC ;

I_1, I_2, I_3 the centres of the circles inscribed in the triangles BIC, CIA, AIB respectively, prove that

$$II_1 \cos \frac{B}{4} \cos \frac{C}{4} = II_2 \cos \frac{C}{4} \cos \frac{A}{4} = II_3 \cos \frac{A}{4} \cos \frac{B}{4} = \frac{1}{2}r,$$

where r is the radius of the inscribed circle of the triangle.

3. Find the exponential values of $\sin \theta, \cos \theta$; and show how to express $\cos^n \theta$ in a series of cosines of multiple angles.

$$\text{Show that } \sin^4 \theta \cos^3 \theta = \frac{1}{2^6} \{ \cos 7\theta - \cos 5\theta - 3 \cos 3\theta + 3 \cos \theta \}.$$

4. Prove the following relations between the sides and angles of a spherical triangle :— (i) $\cos a = \cos b \cos c + \sin b \sin c \cos A$;

$$(ii) \cos \frac{1}{2}(a+b) \sin \frac{1}{2}C = \cos \frac{1}{2}(A+B) \cos \frac{1}{2}c ;$$

and write down the three similar relations.

Deduce from (ii) the relation

$$\cot \frac{s}{2} = \sqrt{\cot \frac{1}{4}E \tan \frac{1}{4}(2A-E) \tan \frac{1}{4}(2B-E) \tan \frac{1}{4}(2C-E)}$$

where E is the spherical excess.

5. Show that any homogeneous equation of the n th degree in x and y represents n straight lines.

Show that the area of the triangle contained by the lines

$$ax^2 + 2hxy + by^2 = 0, \text{ and } \frac{x-f}{\cos \theta} = \frac{y-g}{\sin \theta} \text{ is } \frac{(f \sin \theta - g \cos \theta)^2 \sqrt{(h^2 - ab)}}{a \cos^2 \theta + 2h \sin \theta \cos \theta + b \sin^2 \theta}.$$

6. If four points on an ellipse lie on a circle, show that the sum of the eccentric angles is an even multiple of two right angles.

Hence (or otherwise) find the point in which the circle of curvature, at a point whose eccentric angle is ϕ , cuts the ellipse, and show that the square of the chord of curvature at the point $\phi = \frac{\pi}{4}$ is equal to twice the square of the line joining the ends of the axes of the ellipse.

7. Find the equation to the tangent to a hyperbola referred to its asymptotes.

If the polar of a point (XY) with regard to a hyperbola, referred to its asymptotes, meet the curve in the points $(x_1y_1), (x_2y_2)$, show that

$$X(y_1 + y_2) = Y(x_1 + x_2) = \frac{a^2 + b^2}{2}.$$

8. Find the equation and length of the shortest distance between two straight lines.

Write down the length of the shortest distance between the lines

$$y=3x+5: z=2x+3, \text{ and } x+3y+2z=2(x+y+z)=4.$$

9. Investigate the equation to the enveloping cone of the ellipsoid

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1.$$

A cone is described on the elliptic base $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$. Prove that the locus of the vertex so that it may have three generators at right angles is the ellipsoid $b^2x^2 + a^2y^2 + (a^2 + b^2)z^2 = a^2b^2$.

10. Define Principal Normal ; Osculating plane of a tortuous curve, and find the equation to the latter. Deduce the condition for a plane curve.

11. What is meant by a Singular Solution of a differential equation, and what is its relation to the general solution ?

Find whether the equation $2y = xp + \frac{a}{p}$ has a singular solution.

12. Solve the differential equations :—

(i) $x(3y^2 - x)dy = y(2x - y^2)dx$;

(ii) $\frac{d^4y}{dx^4} - 4\frac{d^3y}{dx^3} + 5\frac{d^2y}{dx^2} - 4\frac{dy}{dx} + 4y = x^2e^{3x} + \sin x$;

(iii) $(y^3 - z^3)p + (z^3 - x^3)q = x^3 - y^3$;

and the difference equations,
$$\begin{pmatrix} u_{x+2} + 2u_{x+1} - 8u_x = x \\ v_{x+2} - u_{x+1} - 2v_x = 1^x \end{pmatrix}$$

NATURAL PHILOSOPHY.

FIRST PAPER.

1. Show that a system of forces acting on a rigid body can always be reduced to a single force and a single couple in a plane perpendicular to that force. Deduce the conditions for a single resultant.

Three forces, P , Q , R act along the non-intersecting edges of a rectangular parallelepiped, whose edges corresponding to the forces are a , b , c . Prove that the forces have a single resultant if

$$\frac{a}{P} + \frac{b}{Q} + \frac{c}{R} = 0.$$

2. Show how to find the centre of gravity of a plane area (1) in Cartesian, (2) in polar co-ordinates.

The ordinate of the centre of gravity of the area enclosed between the arcs of two concentric, similar and similarly situated ellipses and two radii vectores drawn to points whose eccentric angles are ϕ_1, ϕ_2 is

$$\frac{2}{3} \cdot \frac{b}{a} \cdot \frac{a^3 - a'^3}{a^2 - a'^2} \cdot \frac{\cos \phi_2 - \cos \phi_1}{\phi_1 - \phi_2},$$

where a , a' are the semi-major axes of the ellipses.

3. Find the equations of equilibrium of a string resting in a plane under the action of a central repulsive force.

Find the law of force to the centre under which a string with both ends fixed rests in the form of an equilateral hyperbola.

4. Define the potential due to a system of attracting masses : and show that the components of attraction can be represented by the first differential co-efficients of this function.

Prove that the mean value of the potential over any spherical surface due to a system of external attracting masses is equal to the potential at the centre.

5. A particle moves in a plane : find its accelerations parallel to axes which rotate about the origin with different uniform angular velocities.

Deduce (or otherwise find) the radial and transversal accelerations of a particle moving in a plane curve.

6. In a central orbit, the difference of the squares of the velocities at any two points is independent of the path pursued.

If, in addition to the central force P , there be a transverse force T show that the equation to the orbit takes the form

$$\left(\frac{d^2u}{d\theta^2} + u\right) \int \frac{2T}{u^3} d\theta = \frac{1}{u^2} \left(P - \frac{T}{u} \frac{du}{d\theta} \right).$$

7. A particle slides down a smooth curved tube; find the velocity and pressure on the tube at any point of the path.

A particle starts from rest at the cusp of a cycloid, whose base is horizontal and vertex lowest. Show that the pressure at any point due to gravity is equal to the pressure due to the velocity.

8. A rigid body oscillates about a fixed horizontal axis. Show that there is another axis about which the body would oscillate in the same time; and find the axis about which the time of oscillation is least.

Find the time of an oscillation of an elliptic lamina swinging in its own plane about the focus.

9. Enunciate D'Alembert's principle, and obtain from it the equations of motion of a rigid body in two dimensions.

A perfectly rough sphere of mass m rolls down a wedge of mass M and angle α , placed on a perfectly smooth table. If x be the distance of the centre of the sphere measured parallel to the inclined plane from its initial position, x' the distance through which the wedge has moved along the table, show that

$$(M+m)x' = mx \cos \alpha : \frac{7}{5}x - x' \cos \alpha = \frac{1}{2}g \sin \alpha \cdot t^2.$$

10. Investigate the differential equation for the longitudinal vibrations of an elastic rod; and obtain the solution in the case in which one end is fixed and the other free.

11. With the usual notation, obtain the equations of fluid motion in the form $\frac{du}{dt} - 2v\zeta + 2w\eta = -\frac{d}{dx} \left(V + \int \frac{dp}{\rho} + \frac{1}{2}q^2 \right)$ and similar equations.

If the motion be steady, prove that a family of surfaces

$$V + \int \frac{dp}{\rho} + \frac{1}{2}q^2 = 0$$

can be drawn to contain both the stream and vortex lines.

12. Find the form of the free surface of waves in deep water, stating clearly the assumptions you make in the solution.

Show that the energy of the motion is half kinetic and half potential.

13. Investigate the equation of the conduction of heat in two dimensions; and obtain Fourier's solution, for the case in which the medium extends indefinitely in both directions, in the form

$$v = \frac{1}{4\pi kt} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} e^{-\frac{(x-x')^2 + (y-y')^2}{4kt}} f(x'y') dx' dy',$$

where $f(xy)$ represents the initial temperature at the point xy .

SECOND PAPER.

1. Define “irrotational motion” and “velocity-potential.” Illustrate by examples.

2. Investigate the expression for fluid pressure in irrotational motion of a liquid, under the influence of gravity.

3. State the general law of circulation in any closed line of particles of a liquid; and deduce Helmholtz’s laws of vortex motion.

4. Investigate the velocity-potential of the two-dimensional motion of a liquid in the neighbourhood of a solid cylinder moving through it with a given velocity V perpendicular to the axis of the cylinder, supposing there to be cyclic irrotational motion of the liquid round the cylinder.

5. Criticise the following statement:—“A steady stream impinges directly on a fixed plane lamina. The region of dead water behind the lamina is bounded on each side by a surface of discontinuity.” Explain what the author means, by an illustrative diagram. Give reason for certainty that no such motion can take place with a perfect liquid. Describe what is observed in such circumstances, with a real liquid such as water.

6. Investigate the permanent temperature at any point in a solid shell bounded by two concentric spherical surfaces kept at any given temperatures.

7. Investigate the temperature at any time t in an infinite straight bar coated with an ideal varnish impermeable to heat; and given with temperature $= V \cos \frac{2\pi x}{l}$, at distance x from any fixed point O .

8. A copper globe 4 cms. in diameter is hung from a fixed support by a copper wire 1 m.m. thick and 6 cms. long. The support is kept permanently at 50°C . above the surroundings. Find the temperature of the globe. Emissivity, $\frac{1}{4000}$; Conductivity of Copper, 0.91.

9. Investigate the electric images in two infinite conducting planes meeting at a right angle; supposing an electrified body to be fixed anywhere in this angle.

10. Enunciate the fundamental proposition of electric images for the case of an uninsulated spherical conductor, influenced by an electrified point. Deduce a construction for the successive images in two neighbouring spherical conductors, both uninsulated.

IV.—FOR DEGREES OF LL.B. AND B.L.

CIVIL LAW.

1. Give an account of the origin of the *Plebs*. What was the result of communicating to them private rights?

2. Describe the origin and explain the functions of the *Comitia Tributa*. Distinguish between its functions and those of the *Comitia Centuriata*.

3. Describe the work done by the Jurist class in the development of Roman Law.

4. Examine the various modes by which a person *alieni juris* might become independent.

5. Explain usufruct, and state the different modes in which it might be terminated. Distinguish between usufruct and a right of bare use.

6. What classes of persons might not alienate property? How could contracts be safely made with them?

7. Write a short account of the forms of executing Testaments in use at different periods in the history of the Civil Law.

8. Explain the operation of the *Lex Falcidia*.

9. Sketch the history of the Roman Literal Contract.

10. Classify and explain the various kinds of "testamentary possession of goods."

11. Illustrate the different meanings which attached to the word *injuria* in the Civil Law. What remedies for *injuria* did the law allow?

12. State the distinction between actions which belonged to the Civil Law and actions introduced by the Praetor in virtue of his jurisdiction. Give illustrations.

LAW OF SCOTLAND.

[NOTE.—Not more than TWELVE of the following questions are to be attempted.]

1. What is the effect of intoxication of one or both parties on the validity of a contract?

2. Give the leading rules as to interest.

3. What is a custom of trade? What effect has such a custom on a mercantile contract?

4. Give an outline of the main provisions of the Factors' Acts.

5. What is the protest of a bill? What is its object? Is it competent to protest a cheque?

6. What are the risks insured against in a Marine Policy, and what are the usual exceptions?

7. What is novation?

Discuss particularly (1) a change in the partners of a firm; and (2) the granting of a bill.

8. What are the rights *inter se* of superior and inferior heritors in respect of drainage?

9. What means has a landlord for the enforcement of the payment of rent in (1) agricultural and (2) urban subjects?

10. What is the liability of a husband for the debts of his wife contracted (1) prior to marriage; and (2) during marriage?

11. Specify the rights of a posthumous child.

12. Has a person accused of crime, but acquitted, any remedy against (1) the informer or (2) the public prosecutor?

13. Translate and illustrate fully—

(1) *Prior tempore potior jure*;

(2) *Quod approbo non reprobo*.

14. Explain the phrases—Common debtor ; tacit relocation ; liquidate damages ; executory contract : real warrandice.

15. Enumerate as many acts as you can which might be libelled as assault, and mention the chief aggravations recognized by the law.

CONVEYANCING.

1. State the principal changes (a) on the Instrument of Sasine, and (b) as to the registration thereof, effected by the Act 8 and 9 Vic., c. 45.

2. State the general rules which govern vesting in *mortis causâ* succession, with special reference (a) to a destination in liferent and fee ; (b) to a gift to a class and the survivors and survivor of them ; (c) to a case of vesting subject to defeasance.

3. Give the alterations made upon the law by the Titles to Land Consolidation Act of 1868.

4. B held the property of X under a recorded feu contract, and the property of Y under a recorded contract of ground annual. He disposed both subjects to C for a price paid, under the reservations, real burdens, conditions and obligations contained in the feu contract and contract of ground annual respectively. C recorded his disposition. What are the personal liabilities incurred by C (a) to the granter of the feu contract, and (b) to the granter of the contract of ground annual ? Distinguish between the different kinds of burdens, and give reasons for your answer.

5. B, infert in the lands of X, being insolvent, granted a general disposition of his whole estates heritable and moveable in favour of C, as trustee for creditors ; and he reserved power to nominate another trustee on the failure of C. C accepted the trust, and some time after resigned office without having completed a title. B thereupon nominated D as trustee. How might D have completed his title to the lands of X prior to 1858 ? How may he complete it according to the present law and practice ?

6. Give the alterations made upon the law by the Conveyancing Act of 1874.

7. B, infert, granted a bond and disposition in security to C, as trustee under a marriage contract, and his successors in office, without an exclusion of executors. C was infert. He assumed D and E as trustees and thereafter died. In how many ways, specifying them, may D and E complete their title to the bond ? What bearing on this question, if any, has the 117th section of the Titles to Land Consolidation (Scotland) Act, 1868 ?

8. A held the barony of Whiteacre, with parts and pertinents under a non-bounding charter. B held the estate of Blackacre (which marched with Whiteacre) under a bounding charter. What rights could A and B respectively acquire by prescription, each in the estate of the other ? Mention any rights, connected with land, that do not pass under a clause of parts and pertinents, and state the effect of prescriptive possession upon these rights.

9. What is the import of the clause in a disposition “and I assign the rents” ? Work out the result in the sale of an arable farm with

entry at Martinmas, 1888, the rent for crop and year 1888 being £500, payable the first half at Martinmas, 1888, and the second half at Whitsunday, 1889.

10. Where a testator directs his trustees to divide the residue of his estate between his two married daughters, and then goes on to declare that their interests shall be alimentary, and not subject to the *jus mariti* or right of administration of their husbands, what is the legal import of this provision, and of what deeds or documents can the trustees demand the execution?

11. May a superior renounce or discharge the casualties of superiority, or the feu duty; and if so, what is the proper feudal method?

12. Give the effect of an Extract Retour or Extract Decree of Special Service (1) before and (2) after the Service of Heirs Act, 1847, mentioning the various changes made since that Act.

PUBLIC INTERNATIONAL LAW.

1. What rights of appropriation of the sea does Great Britain claim or recognize?

2. What are the rights of a foreigner in Great Britain? How may he become naturalized? What effect has naturalization on his rights?

3. On the outbreak of war, what are the rights of British subjects resident in the territory where hostilities are in progress, Great Britain being neutral?

4. What is the effect of war on treaties and contracts?

5. Sketch the provisions of the Geneva conventions.

6. What is the British practice as to pre-emption?

7. Give some account of the non-hostile relations which may exist between belligerents, and sketch shortly the practice in regard thereto.

[ONE question to be omitted.]

PRIVATE INTERNATIONAL LAW.

8. What law determines the capacity to contract?

9. What court has jurisdiction to pronounce a decree of divorce?

10. Translate and explain: "Venire bona ibi oportet, ubi quisque, defendi debet, id est ubi domicilium habet, aut ubi quisque contraxerit. Contractum autem non utique eo loco intelligitur, quo negotium gestum sit, sed quo solvenda est pecunia."

11. How do the British statutes deal with cases of collision in Bankruptcy?

[ONE question to be omitted.]

PHILOSOPHY OF LAW.

12. "An individual in entering a foreign territory binds himself by a tacit contract to obey the laws enacted by it, for the maintenance of the good order and tranquillity of the realm." Discuss this.

13. Examine the notion of the personality of the state.

14. Compare the nature and objects of treaties and contracts.

15. How far is a judge bound to follow an unsound precedent?

[ONE question to be omitted.]

CONSTITUTIONAL LAW AND HISTORY.

1. What do you know about the Star Chamber Court? Refer to its origin, its jurisdiction, and its connection with the Privy Council.
2. On what grounds might Royal Proclamations be justified under Elizabeth? What do you say about the proclamation of Martial Law in 1595?
3. What was the prevailing spirit and disposition of the House of Commons under Elizabeth?
4. Sum up the results of the twenty years' struggle between Crown and Parliament under James I.
5. Sketch the history of the Constitution from the accession of Charles I. to the dissolution of his Third Parliament.
6. Give a short account of the law of Impeachment, selecting instances from the reign of Charles II.
7. "The Revolution is justly entitled to honour as the era of religious in a far greater degree than civil liberty." Examine and justify this statement.
8. Give a summary view of the constitution of both Houses of Parliament under the lines of Tudor and Stuart.
9. Summarize the functions of the Local Government Board.
10. "The art of government was almost synonymous with the art of corruption." Of what period is this true? Illustrate your answer.
11. What, according to Bagehot, are the main functions of the House of Commons?
12. Examine this statement—"Cabinet Government is rare because its pre-requisites are many." What are these pre-requisites?

FORENSIC MEDICINE.

1. Discuss the various circumstances which might influence the liability of a person charged with unlawful wounding.
2. What sources of evidence may be appealed to in order to bring home a charge of poisoning? State the value which you would attach to each, and illustrate your answer by reference to some trial for murder by poisoning.
3. Under what circumstances may questions of presumption of survivorship come before Courts of Law, and upon what principles are they decided? Mention any instances.
4. Define *amentia*, *dementia*, and *mania*, and state how each has been sub-divided.

V.—FOR DEGREES OF M.B. AND C.M.

I.—EXAMINATION IN GENERAL EDUCATION.

ENGLISH.

2nd October, 1889.

1. Dictation.
2. Define and give examples of *abstract*, *common*, and *collective* nouns ; *copulative*, *illative*, and *adversative* conjunctions.
3. What is *tense* ? Show how the different tenses are formed in English.
4. Give the derivation of :—*Convent*, *traitor*, *muslin*, *relapse*, *astronomy*, *progress*, *villain*, *solitude*, *curfew*, *oppose*, *knave*.
5. Explain the following :—Case, antecedent, mood ; subject, completion of predicate, adjective phrase, noun clause.
6. Analyse the sentence and parse the words in italics :—
 “ And *once*, in winter, on the *canseway chill*
 Where *home* through flooded fields foot-travellers *go*,
 Have I not *passed* thee on the wooden bridge,
Wrapt in thy cloak and *battling* with the snow,
 Thy *face* toward Hinksey and its wintry *ridge* ? ”
7. Write an essay on—A Fishing Excursion, or Winter, or Why you wish to be a Medical Practitioner.

26th March, 1890.

1. Dictation.
2. How are adverbs classified ? Give *two* examples of each class.
3. Explain these grammatical terms :—*Declension*, *conjugation*, *case*, *mood*, *tense*.
4. Give the derivation, and state what you know of the formation of :—*Contention*, *restrain*, *conjecture*, *orator*, *parliament*, *attract*, *library*, *inform*, *algebra*, *heliotrope*.
5. Distinguish *demonstrative* and *indefinite* pronouns ; *transitive* and *intransitive* verbs ; *adversative* and *illative* conjunctions.
6. Analyse the sentence and parse the words in italics :—
 “ Here, *where* the reaper was at work of late—
 In this high field’s dark corner, where he *leaves*
 His coat, his basket, and his *earthen* *cruise*,
 And in the sun *all* morning *binds* the sheaves,—
 Here will I sit and *wait*,
 While to my ear from uplands far away
 The bleating of the folded flocks *is borne*. ”
7. Write an essay on Napoleon, or War, or any one of Sir Walter Scott’s Novels.

LATIN.

2nd October, 1889.

1. Translate—

- (a) Vix ea fatus erat, summo quum monte videmus
 Ipsum, inter pecudes vasta se mole moventem,
 Pastorem Polyphemum, et littora nota petentem :
 Monstrum horrendum, informe, ingens, cui lumen ademptum
 Trunca manu pinus regit et vestigia firmat.
 Lanigeræ comitantur oves : ea sola voluptas,
 Solamenque mali.
 Postquam altos tetigit fluctus, et ad aequora venit,
 Luminis effossi fluidum lavit inde cruorem,
 Dentibus infrendens gemitu ; graditurque per aequor
 Iam medium, necdum fluctus latera ardua tinxit.
 Nos procul inde fugam trepidi celerare, recepto
 Supplice, sic merito ; tacitique incidere funem ;
 Verrimus et proni certantibus aequora remis.
 Sensit, et ad sonitum vocis vestigia torsit.
 Verum, ubi nulla datur dextra affectare potestas,
 Nec potis Ionios fluctus aequare sequendo,
 Clamorem immensum tollit : quo pontus et omnes
 Intremuere undae, penitusque exterrita tellus
 Italiae, curvisque immugiit Aetna cavernis.

(b) Quibus omnibus rebus hostes invitati copias transducunt, aciem-
 que iniquo loco constituunt ; nostris vero etiam de vallo deductis,
 propius accedunt, et tela intra munitionem ex omnibus partibus con-
 jiciunt ; praeconibusque circummissis pronuntiare jubent, “Seu quis
 Gallus seu Romanus velit ante horam tertiam ad se transire, sine
 periculo licere ; post id tempus non fore potestatem” : ac sic nostros
 contemserunt, ut, obstructis in speciem portis singulis ordinibus cespit-
 um, quod ea non posse introrumpere videbantur, alii vallum manu
 scindere, alii fossas complere inciperent.

2. (1) Decline *ordo*, *cespes*, *hostis*, *domus*, and *hic idem tristis dies*.
 Compare *juvenis*, *piger*, *gracilis*, *parvus* and *inferus*.

(2) Distinguish between *hostis* and *inimicus*, *patiens frigus* and
patiens frigoris. Parse and conjugate *ademptum*, *tetigit*, *graditur*,
sensit, *effundere*, and *videbantur*.

(3) (a) Having drawn up the army in a triple line (*acies*), and
 having speedily accomplished (*conficere*) a journey of eight miles,
 he arrived at the camp of the enemy before (*priusquam*) the
 Germans could (*possent*) perceive what (*quid*) was being done.

(b) On the following day Caesar sent his lieutenant (*legatus*), Titus
 Labienus, with three legions, which he had brought back from
 Britain, into the territory of the Morini (*in Morinos*), who had
 made a rebellion.

26th March, 1890.

1. Translate—

(a) Unum illud tibi, nate *dea*, proque omnibus unum
Prædicam, et repetens iterumque iterumque monebo :
Quæcumque in foliis descripsit carmina virgo,
Digerit in numerum, atque *antro* seclusa relinquit.
Illa manent immota locis, neque ab ordine cedunt.
Verum *eadem*, verso tenuis quum cardine ventus
Impulit, et teneras turbavit janua frondes,
Nunquam deinde cavo volitantia prendere saxo,
Nec revocare situs, aut jungere carmina curat.

(b) Duabus missis *subsidiis* cohortibus a Cæsare, atque his primis legionum duarum, cum hæ perexiguo intermisso spatio inter se constitissent, novo genere pugnae perterritis nostris, per medios audacissime perruperunt, seque inde incolumes receperunt. Eo die Quintus Laberius Durus, tribunus militum, interficitur. Illi, pluribus submissis cohortibus, repelluntur. Toto hoc in *genere* pugnae, cum sub oculis omnium ac pro castris dimicaretur, intellectum est nostros propter gravitatem armorum, quod neque insequi cedentes *possent*, neque ab signis discedere auderent, minus aptos esse ad hujus generis hostem ; *equites* autem magno cum periculo prælio *dimicare*, propterea quod illi etiam consulto plerumque cederent, et, cum paulum ab legionibus nostros removissent, ex essedis desilirent, et pedibus *dispari* prælio contenderent.

2. In the above passages parse fully and explain exactly the construction of the words that are *italicised*.

3. Write down the ablative singular and genitive plural of the following—*genus, mænia, rupes, canis, par, quisquam, princeps, memor, urbs, dies*.

4. Conjugate—*pello, reperio, peto, abeo, soleo, fugo, cedo, audeo, tango, seco*.

5. Translate into Latin—

(a) Do not go away from Rome until you have seen your father.

(b) How long have you lived at Rome? Ten years longer than my brother.

(c) Cæsar sent on his cavalry to find out where the enemy had gone.

(d) You ought to read this book. It is very good.

6. Translate—

Hæc cum dixisset, juravit se nisi victorem in castra non reversurum, reliquosque, ut idem facerent, hortatus est. Hoc laudans Pompeius idem juravit ; nec vero ex reliquis fuit quisquam, qui jurare dubitaret. Hæc cum facta sunt in consilio, magna spe et lætitia omnium discessum est ; ac jam animo victoriam præcipiebant, quod de re tanta et a tam perito imperatore nihil frustra confirmari videbatur.

ARITHMETIC.

2nd October, 1889.

1. The sum of three numbers is 4761 ; the first is 1792, the second is 367 less than the first ; what is the third ?

2. Find the value of 31 tons 5 cwt. at 1s. 10d. per cwt.
3. A man pays £41 3s. 6d. income tax at 6d. in the pound; what is his income?
4. Reduce to equivalent fractions having a common denominator, and pick out the greatest and the least of the fractions, $\frac{23}{44}$, $\frac{5}{7}$, $\frac{33}{47}$.
5. Simplify
$$\frac{\frac{2}{3} \text{ of } 1\frac{1}{4} + \frac{4}{6}}{3\frac{2}{5} + 1\frac{1}{4}\frac{9}{11}} \div 5 + \frac{6}{7 + \frac{8}{9}}$$
6. Find the value of 7 miles 330 yards of telegraph wire at £5 14s. 7d. per mile.
7. Into how many plots, each containing 1·45 poles, can a field of 10 acres be divided, and what part will be left over?
8. Simplify, giving the answer in decimals,

$$\frac{14\cdot7\dot{3}\dot{2} + 2\cdot9\dot{8}}{20\cdot9\dot{0} - 1\cdot4\dot{6}}$$

9. If the wages of 29 men for 54 days amount to £80 9s. 6d., now many men must work 12 days to receive £370.
10. When and where shall I overtake a friend who starts 18 minutes before me and walks at $3\frac{1}{2}$ miles an hour, if I go at $4\frac{1}{4}$ miles an hour?

26th March, 1890.

1. Multiply two hundred and thirty six millions, three hundred and seventy eight thousand, five hundred and forty nine by seven millions, nine hundred and three thousand and six.
2. Divide 2·75643 by ·00647, the answer to be correct to four places of decimals.
3. Find (i) the sum, (ii) the difference, (iii) the product of the greatest and least of the fractions $\frac{1}{7}$, $\frac{1^5}{1^5 6}$, $\frac{1^6}{1^3 3}$.
4. Simplify, giving the answer in decimals,
$$\frac{13\cdot6\dot{2}\dot{1} + 1\cdot8\dot{7}}{19\cdot7\dot{9} - 1\cdot3\dot{5}}$$
5. Simplify
$$\frac{\frac{2}{3} \text{ of } \frac{5}{7} + \frac{2}{6}}{1\frac{3}{5} + 1\frac{1}{4}\frac{9}{11}} \div 3 + \frac{4}{5 + \frac{6}{7}}$$
6. Find the cost of 46 tons 13 cwt. 3 qrs. 26 lbs. at £1 3s. 4d. per ton.
7. A cistern can be filled by one pipe in 3 hours and emptied by another in 5 hours; how long will it take to fill when both pipes are kept open?
8. Find the value of 37 acres 1 rood 37 poles of land at £35 5s. 10d. per acre.
9. If the wages of 60 men working 8 hours a day for 54 days amount to £864, find the wages of 50 men working 9 hours a day for 60 days.
10. If the interest on 100 guineas for $3\frac{1}{2}$ years is £9 3s. 9d., find the interest on £625 for 8 years.

ELEMENTARY MATHEMATICS.

3rd October, 1889.

1. If two angles of a triangle be equal, the sides opposite them shall also be equal.

2. The straight lines which join the extremities of equal and parallel straight lines are themselves equal and parallel.

3. Triangles of equal area which have their bases equal and in the same straight line, and which are on the same side of the line, are between the same parallels.

4. Describe a square that shall be equal to a given rectilineal figure.

5. The diameter is the greatest chord in a circle; and of all others that which is nearer to the centre is greater than one more remote.

6. If from a point without a circle two straight lines be drawn, one of which cuts the circle and the other meets it, and if the rectangle contained by the whole line which cuts the circle and the part of it without the circle be equal to the square on the line which meets the circle, the line which meets the circle shall touch it.

7. Find the value of $\frac{\sqrt{a^2+2bc}}{a} + \frac{\sqrt{b^2+ca}}{b} + \frac{\sqrt{c^2+ab}}{c}$ when $a=4$, $b=3$, $c=-2$.

8. Divide $1-5x^4+4x^5$ by $(1-x)^2$, and find the value of the quotient when $x=1$.

9. Solve the equation and verify the result:—

$$3x^2 = (x+1)^2 + (x+2)^2 + (x+3)^2.$$

10. A sum of money is divided between three persons, A, B, C, in such a way that A and B have £60 between them, A and C have £65, and B and C £75. How much has each?

27th March, 1890.

NOTE.—*Book I. of Euclid and Algebra must be taken together.*

EUCLID—BOOK I. AND ALGEBRA.

1. Find the quotient and remainder when $x^4 - \frac{1}{3}x^3 + \frac{1}{5}x^2 - \frac{1}{7}x + \frac{1}{9}$ is divided by $x^2 - x + 1$.

2. If two sides and the contained angle of one triangle be equal to two sides and the contained angle of another triangle, the two triangles shall be equal in every respect.

3. Find the value of $[2b - \{3c + (4a - \overline{3c + 2b})\}]$, when $a=1$, $b=2$, $c=3$.

4. Parallelograms on the same base and between the same parallels are equal in area.

5. Solve the equation $3(x-1)^2 = x^2 + (x+1)^2 + (x+2)^2$.

6. If the square described on one of the sides of a triangle be equal to the squares described on the other two sides of it, the angle contained by those two sides is a right angle.

7. A sum of money is divided into six equal parts each of which is 8s. less than half the whole sum. Find the sum.

EUCLID—BOOKS II. AND III.

8. Divide a straight line into two parts, so that the rectangle contained by the whole line and one of the parts may be equal to the square on the other part.

9. Define similar segments of circles. On a given straight line describe a segment of a circle which shall contain an angle equal to a given angle.

10. Define a tangent. Draw a tangent to a circle from an outside point.

MECHANICS.

3rd October, 1889.

1. Draw a diagram representing the resultant of the following velocities :—1 south, 2 east, and 3 north-east.

2. In a certain interval a velocity of 4 east is changed into a velocity of 5 north-east. Draw a diagram representing the “change of velocity” during the interval.

3. A train is observed to pass a station at a speed of 30 miles an hour; if it increase its speed uniformly so that in every minute it adds on a speed of 20 yards per minute, how far will it be beyond the station at the end of 20 minutes?

4. State the law of gravitation given by Newton. If the force of attraction between two bodies be measured by 20 when they are 5 miles apart, what number will measure the force when they are 20 miles apart?

5. Compare the amounts of momentum in (1) a 56-lb. weight which has fallen for 2 seconds from rest, and (2) a cannon ball of 12 lbs. moving with a velocity of 900 feet per second.

6. A man pumps 30 gallons of water per minute to a height of 16 feet: how many foot pounds of work does he do in an hour, assuming that a gallon of water weighs 10 lbs.?

7. Find the condition of equilibrium of a body resting on a smooth inclined plane, and acted on by a horizontal force.

8. Define “density” and “specific gravity,” and point out the distinction between them. A body weighs 1000 lbs., and its density is 5 times that of water; what is its volume?

9. Express in pounds weight per square foot the pressure at the bottom of a lake 300 feet deep, neglecting the pressure at the surface.

10. State Boyle’s law connecting the pressure and volume of gases. If a cubic foot of air weighs 570 grains at a pressure of 15 lbs. on the square inch, what will it weigh at a pressure of 17 lbs.?

27th March, 1890.

1. Explain how a straight line represents a velocity. Give a diagram representing the resultant of the following velocities :—1 north, 2 west, and 3 south-west.

2. Explain what is meant by uniform acceleration and state how it is measured.

The acceleration of a body is 32 feet per sec. per sec. Express the same acceleration in terms of yards and minutes.

3. In a waterfall 40 tons of water fall from a height of 50 ft. in each minute, and are employed to turn a turbine which transforms $\frac{1}{2}$ of the energy of the water into useful work. Find the number of footpounds of work the turbine does in a second. Find also the horse-power of the turbine.

4. State the three kinds of equilibrium and give an example of each.

5. Define Centre of Parallel Forces and Centre of Gravity.

A uniform iron rail which weighs 120 lbs. is supported by 2 posts 12 ft. apart, the posts being 10 and 8 ft. respectively from the ends of the rail. Find the pressures on the posts.

6. A railway train, whose mass is 130 tons, rests on an incline and is kept from moving downwards by a force equal to the weight of 13 cwt. What is the slope of the incline?

7. State Boyle's Law connecting the pressure and volume of gases.

A cubic foot of air weighs 608 grains at a pressure of 16 lbs. per square inch, what will a cubic foot of air weigh when the pressure is 15 lbs.?

8. Describe and explain carefully the action of the syphon.

GREEK.

4th October, 1889.

1. Translate :—

(a) Καί τινων λεγόντων περὶ τοῦ ἱεροῦ ὅτι λίθοις καλοῖς καὶ ἀναθήμασι κεκόσμηται, εἶπε· Ταῦτα ἂ θεωρεῖτε, ἐλεύσονται ἡμέραι ἐν αἷς οὐκ ἀφεθήσεται λίθος ἐπὶ λίθῳ, ὃς οὐ καταλυθήσεται. ἐπηρώτησαν δὲ αὐτὸν, λέγοντες· Διδάσκαλε, πότε οὖν ταῦτα ἔσται; καὶ τί τὸ σημεῖον, ὅταν μέλλῃ ταῦτα γίνεσθαι; Ὁ δὲ εἶπε· Βλέπετε μὴ πλανηθῆτε· πολλοὶ γὰρ ἐλεύσονται ἐπὶ τῷ ὀνόματί μου, λέγοντες· "Οτι ἐγὼ εἰμι" καὶ Ὁ καιρὸς ἤγγικε. μὴ οὖν πορευθῆτε ὀπίσω αὐτῶν. ὅταν δὲ ἀκούσῃτε πολέμους καὶ ἀκαταστασίας. μὴ πτοηθῆτε· δεῖ γὰρ ταῦτα γενέσθαι πρῶτον, ἀλλ' οὐκ εὐθέως τὸ τέλος. Τότε ἔλεγεν αὐτοῖς· Ἐγερθήσεται ἔθνος ἐπὶ ἔθνος, καὶ βασιλεία ἐπὶ βασιλείαν· σεισμοὶ τε μεγάλοι κατὰ τόπους καὶ λιμοὶ καὶ λοιμοὶ ἔσονται, φόβητρα τε καὶ σημεῖα ἀπ' οὐρανοῦ μέγала ἔσται.

(b) Ἰάλιν δέ ποτε ὁ Ἀντιφῶν διαλεγόμενος τῷ Σωκράτει εἶπεν, "ὦ Σώκρατες, ἐγὰ τοι σὲ μὲν δίκαιον νομίζω, σοφὸν δὲ οὐδ' ὁπωστίουν. Δοκεῖς δέ μοι καὶ αὐτὸς τοῦτο γινώσκειν· οὐδένα γούν τῆς συνουσίας ἀργύριον πράττη· καίτοι τό γε ἱμάτιον ἢ τὴν οἰκίαν ἢ ἄλλο τι ὧν κέκτησαι, νομίζων ἀργυρίου ἄξιον εἶναι, οὐδενὶ ἂν μὴ ὅτι προῖκα δόλης, ἀλλ' οὐδ' ἔλαττον τῆς ἀξίας λαβών. Δῆλον δὲ ὅτι, εἰ καὶ τὴν συνουσίαν ᾧ τινος ἀξίαν εἶναι, καὶ ταύτης ἂν οὐκ ἔλαττον τῆς ἀξίας ἀργύριον ἐπράττον. Δίκαιος μὲν οὖν ἂν εἴης, ὅτι οὐκ ἐξαπατᾷς ἐπὶ πλεονεξία, σοφὸς δὲ οὐκ ἂν, μηδενὸς γε ἀξία ἐπιστάμενος." Ὁ δὲ Σωκράτης πρὸς ταῦτα εἶπεν, "ὦ Ἀντιφῶν, παρ' ἡμῖν νομίζεται τὴν ὥραν καὶ τὴν σοφίαν ὁμοίως μὲν καλὸν, ὁμοίως δὲ αἰσχρὸν διατίθεσθαι εἶναι."

2. (1) Parse ἀφεθήσεται, ἐπηρώτησαν, πλανηθῆτε, ᾧ, πράττη, and ἐπιστάμενος. Compare δίκαιος, κενός, ταχύς, τάλας, καλός, and σώφρων. Decline ποιμήν, ὄρνις, ἀληθής, and εὐρύς ποταμός in full.

(2) Give the first person plural, all tenses, of the Indicative Mood, Active Voice, of ἀφήμι, νομίζω, and γινώσκω. Give the Cardinal Numbers from 100 to 1,000.

3. Put into Greek :—

(1) Many of the Jews (Ἰουδαῖος) saw the signs which Jesus did and believed (πιστεύω).

(2) The gods have given us many blessings (ἀγαθα) in order that we may serve (ὑπηρετέω) them.

(3) These things spoke the ambassadors (πρέσβεις), but their words were not pleasant (ἡδύς) to the king.

28th March, 1890.

1. Translate :—

(a) Καὶ στᾶσα ὀπίσω παρὰ τοὺς πόδας αὐτοῦ, κλαίονσα, ἤρξατο βρέχειν τοὺς πόδας αὐτοῦ τοῖς δάκρυσι· καὶ ταῖς θριξὶ τῆς κεφαλῆς αὐτῆς ἐξέμασσε, καὶ κατεφίλει τοὺς πόδας αὐτοῦ, καὶ ἤλειφε τῷ μύρῳ. Ἰδὼν δὲ ὁ Φαρισαῖος ὁ καλέσας αὐτὸν, εἶπεν ἐν ἑαυτῷ, λέγων· Οὗτος εἰ ἦν προφήτης, ἐγίνωσκεν ἂν τίς καὶ ποταπὴ ἡ γυνή, ἣτις ἅπτεται αὐτοῦ ὅτι ἁμαρτωλὸς ἐστι.

(b) Προσέχετε δὲ ἑαυτοῖς, μήποτε βαρυνθῶσιν ὑμῶν αἱ καρδίαι ἐν κραιπάλῃ, καὶ μέθῃ, καὶ μερίμναις βιωτικαῖς, καὶ αἰφνίδιος ἐφ' ὑμᾶς ἐπιστῇ ἡ ἡμέρα ἐκείνη. Ὡς παγὶς γὰρ ἐπελεύσεται ἐπὶ πάντας τοὺς καθημένους ἐπὶ πρόσωπον πάσης τῆς γῆς. Ἀγρυπνεῖτε οὖν, ἐν παντὶ καιρῷ δεόμενοι, ἵνα καταξιωθῇτε ἐκφυγεῖν ταῦτα πάντα τὰ μέλλοντα γίνεσθαι, καὶ σταθῆναι ἔμπροσθεν τοῦ υἱοῦ τοῦ ἀνθρώπου.

(c) Ἦν μέντοι ὥσπερ ἀνθρώπους θεραπεύων γινώσκεις τοὺς ἀντιθεραπεύειν ἐθέλοντας καὶ χαρίζομενος τοὺς ἀντιχαρίζομένους καὶ συμβουλευόμενος καταμανθάνεις τοὺς φρονίμους, οὕτω καὶ τῶν θεῶν πείραν λαμβάνης θεραπεύων, εἴ τί σοι θελήσουσι περὶ τῶν ἀδελῶν ἀνθρώποις συμβουλευεῖν, γνῶσθι τὸ θεῖον ὅτι τοσοῦτον καὶ τοιοῦτόν ἐστιν, ὥσθ' ἅμα πάντα ὁρᾶν καὶ πάντα ἀκούειν καὶ πανταχοῦ παρῆναι καὶ ἅμα πάντων ἐπιμελεῖσθαι αὐτούς.

Explain the reason for the case of the words in heavy type in passage (c).

2. Decline in full—πόλις, πλῆθος, νοῦς, μέγας, οὐδεὶς, ὅστις.

3. Parse the following and write down the 1st singular pres. indic. of each :—ἀμφιέννυνσι, φάγητε, οἶδεν, δότε, ἐλθόντος, εὕρη, καταστήσει, γνούς.

4. Translate into Greek—

(a) The people wished to put the eleven generals to death contrary to (παρά) the laws (νόμος).

(b) Socrates believed that the gods knew all things.

(c) If he did any wrong himself, he would justly be deemed (δοκέω) a wicked (πονηρός) man.

(d) He that receiveth me, receiveth him that sent (ἀποστέλλω) me.

5. Translate—

Περικλεῖ δέ ποτε τῷ τοῦ πάνν Περικλέους υἱῷ διαλεγόμενος, Ἐγώ τοι, ἔφη, ὦ Περικλῆς, ἐλπίδα ἔχω σοῦ στρατηγήσαντος ἀμείνω τε καὶ ἐνδοξοτέραν τὴν πόλιν εἰς τὰ πολεμικὰ ἔσεσθαι καὶ τῶν πολεμίων κρατήσῃν. καὶ ὁ Περικλῆς, Βουλοίμην ἂν, ἔφη, ὦ Σώκρατες, ἃ λέγεις· ὅπως δὲ ταῦτα γένοιτ' ἂν, οὐ δύναμαι γνῶναι. Βούλει οὖν, ἔφη ὁ Σωκράτης, διαλογιζόμενοι περὶ αὐτῶν ἐπισκοπῶμεν, ὅπου ἥδη τὸ δυνατόν ἐστιν ;

FRENCH.

3rd October, 1889.

1. Translate—

(a) Pour prévenir les trahisons continuelles des soldats, les empereurs s'associèrent des personnes en qui ils avaient confiance; et Dioclétien, sous prétexte de la grandeur des affaires, régla qu'il y aurait toujours deux empereurs et deux Césars. Il jugea que, les quatre principales armées étant occupées par ceux qui auraient part à l'empire, elles s'intimideraient les unes les autres; que, les autres armées n'étant pas assez fortes pour entreprendre de faire leur chef empereur, elles perdraient peu à peu coutume d'élire; et qu'enfin la dignité de César étant toujours subordonnée, la puissance, partagée entre quatre pour la sûreté du gouvernement, ne serait pourtant dans toute son étendue qu'entre les mains de deux.

(b) La régente avait eu part aux affaires sous le règne du roi son fils: elle était avancée en âge; mais son ambition, plus grande que ses forces et que son génie, lui faisait espérer de jouir longtemps des douceurs de l'autorité sous le roi son petit-fils; elle l'éloignait autant qu'elle pouvait des affaires. Le jeune prince passait son temps à la chasse, ou s'occupait à faire la revue des troupes; il faisait même quelquefois l'exercice avec elles.

2. (i) Give the plurals of *fen*, *animal*, *jonjou*, and *bail*, and the feminine of *sujet*, *cruel*, *complet*, *vif*, *heureux*, and *flatteur*.

(ii) Give the cardinal numbers from 69 to 82, and parse *régla*, *associèrent*, *intimideraient*, *perdraient*, and *élire*, giving the first person plural imperfect and future indicative and imperfect subjunctive of each verb.

(iii) Translate—

(a) Was it he? No, it was I.

(b) I thank you with (*de*) all my heart for (*de*) the interest which you take (*porter*) in my brother; he has done wrong (*tort*), but his excuse is in his youth (*jeunesse*).

(c) The reason is that she has met (*rencontrer*) in the railway car (*wagon*) one of her boarding school (*pension*) friends, that has taken up (*captiver*) her attention.

27th March, 1890.

1. Translate—

(a) Comparons ici les temps: lorsque Tibère commença à regner, quel parti ne tira-t-il pas du sénat? Il apprit que les armées d'Illyrie et de Germanie s'étoient soulevées: il leur accorda quelques demandes, et il soutint que c'étoit au sénat à juger des autres; il leur envoya des députés de ce corps. Ceux qui ont cessé de craindre le pouvoir, peuvent encore respecter l'autorité. Quand on eut représenté aux soldats, comment dans une armée Romaine les enfans de l'Empereur et les envoyés du sénat Romain couroient risque de la vie, ils purent se repentir, et aller jusqu'à se punir eux-mêmes: mais quand le sénat fut entièrement abattu, son exemple ne toucha personne.

(b) Il y a des causes générales, soit morales, soit physiques, qui agissent dans chaque monarchie, l'élèvent, la maintiennent, ou la précipitent; tous les accidens sont soumis à ces causes; et si le hazard d'une bataille, c'est-à-dire, une cause particulière, a ruiné un État, il y avoit une cause générale qui faisoit que cet État devoit périr par une seule bataille: en un mot l'allure principale entraîne avec elle tous les accidens particuliers.

(c) Il remplaça le père, et soutint à son tour sa sœur qui l'avait élevé. Cela se fit simplement, comme un devoir, même avec quelque chose de bourru de la part de Jean. Sa jeunesse se dépensait ainsi dans un travail rude et mal payé. Le soir il rentrait fatigué et mangeait sa soupe, sans dire un mot. Sa sœur, pendant qu'il mangeait, lui prenait souvent dans son écuelle le meilleur de son repas, le morceau de viande, le cœur de chou, pour le donner à quelqu'un de ses enfants; lui, mangeant toujours, penché sur la table, presque la tête dans sa soupe, ses longs cheveux cachant ses yeux, avait l'air de ne rien voir et laissait faire.

2. Give the meanings and the feminine form of the following—*sot, roi, faux, fier, las, fou, sec, vieillard*.

3. Parse in full—*reconnu, eût, soit, meure, sort, entra, va-t-en, savait, dit, voyez*.

4. Translate into French—(a) The oldest of the seven children was eight years of age. (b) They started the day before yesterday. (c) Here are our books. Where are those of the master? (d) I am very hungry. Will you give me something to eat? (e) He had never learned to read. (f) You should have gone away at once.

5. Write down in French the cardinal numbers from *one to twenty*.

GERMAN.

5th October, 1889.

1. Translate—

Der König ritt herab vom Stein zu Baden
 Gen Rheinfeld, wo die Hofstatt war, zu ziehn
 Mit ihm die Fürsten Hans und Leopold
 Und ein Gefolge hochgeborner Herren.
 Und als sie kamen an die Reuss, wo man
 Auf einer Fähre sich lässt übersetzen,
 Da drängten sich die Mörder in das Schiff,
 Dass sie den Kaiser vom Gefolge trennten.
 Drauf, als der Fürst durch ein geackert Feld
 Hinreitet—eine alte grosse Stadt
 Soll drunter liegen aus der Heiden Zeit—
 Die alte Feste Habsburg im Gesicht,
 Wo seines Stammes Hoheit ausgegangen—
 Stösset Herzog Hans den Dolch ihm in die Kehle,
 Rudolph von Palm durchrennt ihn mit dem Speer,
 Und Eschenbach zerspaltet ihm das Haupt,
 Dass er heruntersinkt in seinem Blut,
 Gemordet von den Seinen, auf den Seinen.

Am andern Ufer sahen sie die That ;
 Doch, durch den Strom geschieden, konnten Sie
 Nur ein ohnmächtig Wehgeschrei erheben ;
 Am Wege aber sass ein armes Weib,
 In ihrem Schoss verblutete der Kaiser.

2. Da durchschritt sie behende (*quickly*) die langen doppelten Höfe,
 Liess die Ställe zurück und die wohlgezimmerten Scheunen,
 Trat in den Garten der weit bis an die Mauern des Städtchens
 Reichte, schritt ihn hindurch, und freute sich jeglichen Wachs-
 tums (*plant*),
 Stellte die Stützen zurecht auf denen beladen die Aeste
 Ruhten des Apfelbaums wie des Birnbaums lastende Zweige,
 Nahm gleich einige Raupen (*caterpillars*) vom kräftig strotzenden
 (*growing*) Kohl weg ;
 Denn ein geschäftiges Weib thut keine Schritte vergebens.

3. Give the plurals (with different meanings) of *Bank*, *Band*, *Wort*,
 and *Gesicht*. Parse and conjugate the following verbs *ritt*, *lief*, *liegen*,
 and *sollte*, and give the third person singular of the present indicative of
 each.

4. Give the following expressions in German—
 (i) What kind of trees are these ?
 (ii) All the scholars were in the room.
 (iii) With all your train.
 (iv) Both the kings fell in the battle.

5. Put into German—

On the 27th of September, 1870, the Germans took Strasburg from
 the French. The city has since been so strengthened by new fortifica-
 tions that it is little inferior as a stronghold to Metz.

29th March, 1890.

1. Translate—

- (a) Es kommt kein Fischerkahn zu uns herüber,
 Der nicht ein neues Unheil und Gewalt-
 Beginnen von den Vögten uns verkündet.
 Drum thät es gut, dass euer Etliche,
 Die's redlich meinen, still zu Rathe gingen,
 Wie man des Drucks sich mocht' erledigen ;
 So acht' ich wohl, Gott würd' euch nicht verlassen
 Und der gerechten Sache gnädig sein.
- (b) Und sie versieht sich zu dem trenen Volk,
 Dass es gerechten Abscheu werde tragen
 Vor den verfluchten Thätern dieser That.
 Darum erwartet sie von den drei Landen,
 Dass sie den Mördern nimmer Vorschub thun,
 Vielmehr getreulich dazu helfen werden,
 Sie auszuliefern in des Rächers Hand.

- (c) In einem Thal bei armen Hirten
 Erschien mit jedem jungen Jahr,
 Sobald die ersten Lerchen schwirrten,
 Ein Mädchen schön und wunderbar.
 Sie war nicht in dem Thal geboren,
 Man wusste nicht woher sie kam ;
 Doch schnell war ihre Spur verloren,
 Sobald das Mädchen Abschied nahm.
 Sie brachte Blumen mit und Früchte,
 Gereift auf einer andern Flur,
 In einem andern Sonnenlichte,
 In einer glücklichen Natur.

2. Form the plural of the following nouns, and give also the meaning and the gender—*Held, Thurm, Tag, Kunst, Bild, Ei, Ding, Kaufmann*.

3. Compare—*arm, hoch, gross, viel, gern, bald*.

4. Parse fully—*gethan, übernahm, sollten, darf, hätten, trug, gilt, ausgeflossen*.

5. What cases do the following prepositions govern, and with what meanings—*nach, seit, auf, während, über*.

6. Translate into German—When one of his treasurers (*Schatzmeister*) brought to him a large sum (*Summe*) of money, an officer (*Officier*) who was present, said quite low to a friend, “If I only had this money, I should be a happy man.” “You shall have it,” said the king, who had overheard the remark ; and he immediately ordered the whole of it to be given to the officer.

HIGHER MATHEMATICS.

5th October, 1889.

- Describe a regular pentagon about a circle.
- Triangles of the same altitude are to one another as their bases.
- Describe a rectilineal figure which shall be similar to one and equal to another given rectilineal figure.
- Simplify $\left(y - \frac{a^2 - xy}{y - x}\right)\left(x + \frac{a^2 - xy}{y - x}\right) + \left(\frac{a^2 - xy}{y - x}\right)^2$.
- Solve the equation, verifying the result, $\frac{2x - 1}{2x + 1} + \frac{13}{11} = \frac{3x + 5}{3x - 5}$.
- Solve the simultaneous equations $x^2 - 3xy + 2y^2 = 3$, $2x^2 + y^2 = 6$.
- A man buys a certain number of articles for £1 and makes £1 1s. by selling all but two at 2d. a piece more than they cost. How many did he buy?
- Show that the cotangent of an angle may have all values from zero to infinity, and find the other trigonometric ratios of x when $\cot x = 3$.
- Find values of x satisfying the equations :—
 (i) $2 \cos x = \sqrt{3} \cdot \cot x$; (ii) $\tan^2 x + \frac{1}{\sqrt{3}} = \left(1 + \frac{1}{\sqrt{3}}\right) \tan x$.
- Show how to solve, without the use of logarithms, a triangle when two sides and the angle opposite one of these is given.
 Solve completely the triangle for which $b = 50\sqrt{3}$, $c = 150$, $B = 30^\circ$.

29th March, 1890.

1. Inscribe a regular hexagon in a given circle.
2. If a straight line be drawn parallel to one side of a triangle, it shall cut the other sides or those sides produced proportionally.
3. Describe a rectilineal figure which shall be similar to one and equal to another given rectilineal figure.
4. Simplify $\frac{x^4 - x^3 - x + 1}{x^4 - 2x^3 - x^2 - 2x + 1}$.
5. Solve, verifying the result, $\frac{3}{x-2} + \frac{4}{x-4} = \frac{15}{x+2}$.
6. Solve the simultaneous equations $8x^2 - 6xy + y^2 = 6$
 $32x^2 + y^2 = 24$.
7. The difference of the cubes of 2 consecutive numbers is 919. Find them.
8. If $\tan \theta = 5$, find the other trigonometrical ratios.
9. Find values of x satisfying the following equations:—
(i) $2 \tan x = \sqrt{3} \sec x$; (ii) $\sec x = \frac{3}{2} + \cos x$,
10. In any triangle show that $c^2 = a^2 + b^2 - 2ab \cos C$.
Show that $c^2 = (a+b)^2 \sin^2 \frac{C}{2} + (a-b)^2 \cos^2 \frac{C}{2}$.

NATURAL PHILOSOPHY.

5th October, 1889.

1. State a rule for finding the velocity of sound through the air, and explain why and how the velocity varies with the temperature.
2. State the laws for the frequency of vibration of stretched strings. A string vibrates 100 times in a second: find the number of vibrations of another string which is twice as long and weighs four times as much per foot, and is stretched by the same force.
3. State the relation between the wave-length of the fundamental note of a pipe and the length of the pipe, (1) when the pipe is open at both ends, (2) when it is closed at one end.
Find the length of a pipe open at both ends if the wave-length of the fundamental note be 8 feet.
4. Explain what is meant by Resonance.
5. State Boyle's Law and Charles's law.
100 cubic inches of air is measured off at 20°C .: if the temperature be raised to 50° , what will the volume now be, the pressure remaining constant?
6. Explain what is meant by "latent heat." If 2 lbs. of ice at 0°C . be mixed with 3 lbs. of water at 45°C ., how much ice will be melted, and what will be the final temperature of the mixture?
7. "Joule's Equivalent is 772." Explain what is meant by this statement.

29th March, 1890.

1. Explain the production of "beats" by two strings sounding nearly the same note.

2. Explain what is meant by the intensity, pitch, and quality of a musical sound ; and indicate the causes on which they depend. Give Helmholtz's explanation of the quality of a musical note.

3. State the relation between the wave-length of the fundamental note of a pipe and the length of the pipe, (1) when it is open at both ends, (2) when it is closed at one end.

4. Explain what is meant by Resonance.

5. Distinguish between the conduction, convection, and radiation of heat.

6. Explain why the summer is hotter and the winter colder in the interior of a continent than on an island in the same latitude.

7. State the first law of Thermodynamics. Joule's equivalent is 772. Explain what is meant by this statement.

LOGIC.

4th October, 1889.

1. What is Logic, and why should it be studied ?

2. Define a *term*, and distinguish between abstract and concrete, positive and negative, relative and absolute terms.

3. What is meant by the *conversion* of a proposition ? State and illustrate the rules of valid *conversion*.

4. Explain the distinction between the "anticipation" and the "interpretation" of Nature.

5. Define syllogism. What moods are valid in the third figure ?
Reduce OAO.

6. Discuss the validity of the following :—

(a) This man is a criminal, and all forgers are criminals : therefore this man is a forger.

(b) The receiver of stolen property should be punished : you have received stolen property and should therefore be punished.

(c) Whoever believes this is a heretic ; so that you are no heretic, for you do not believe this.

7. What is an empirical law ? Give instances of such laws, and remark on their use.

28th March, 1890.

1. What is Logic ? Describe carefully what you consider to be its proper sphere.

2. What are the chief causes of the ambiguity of terms ? Explain the ambiguity of—*sense*, *sensation*, *reason*, *end*.

3. Distinguish contrary, contradictory, subaltern and subcontrary propositions.

4. State the Laws of Thought, and the *Dictum de omni et nullo* : how are they related to immediate and to mediate inference ?

5. What is the *mood* of a syllogism ? Construct a valid syllogism in each of these moods—EAE, IEO, AEE, AAI.

6. Draw up a list of Logical Fallacies : define and illustrate the fallacy of *Accent*, of *Division*, and of *Composition*.

7. What is meant by the "Quantification of the Predicate" ?

MORAL PHILOSOPHY.

4th October, 1889.

1. "The whole of which Ethics forms a part is the whole constituted by the theory of conduct in general." Explain and examine this.
2. What place does Mr. Spencer assign to causation in the growth of the Moral Ideal? Illustrate by reference to his criticism of empirical utilitarianism.
3. State in detail and criticize Mr. Spencer's view, (1) of Virtue, *or* (2) of Blessedness, as the end of action.
4. "Has Evolution been a mistake?" What does Mr. Spencer mean by this question? Compare and contrast the answers of his optimist and his pessimist.
5. What is Altruism? and what, according to Mr. Spencer, are its relations to egoism? Indicate the effects of the development of sympathy upon these relations.
6. What precisely does Mr. Spencer mean by Absolute Ethics? Trace the course of the reasoning by which he justifies his position.

28th March, 1890.

1. What is the "struggle for existence"? and what place does Mr. Spencer assign to it in the evolution of morality?
2. "The good is universally the pleasurable." Explain and criticize.
3. What is the "Physiological Contract"? How does Mr. Spencer apply this formula to the social organism?
4. State precisely what Mr. Spencer considers to be the sphere of Psychology. How is it related to Ethics?
5. "Not for the human race only, but for every race there are laws of right living." Explain and illustrate this.
6. What is Universalistic Hedonism? Criticize, from Mr. Spencer's standpoint, Bentham's view of justice as an end.
7. What does the Egoist regard as the end of action? How far is he justified by the results of pure Altruism? Add remarks.

II.—PROFESSIONAL EXAMINATIONS.

I.—FIRST PROFESSIONAL EXAMINATION.

CHEMISTRY.*5th April, 1889.*

1. A hydrochloric acid solution contains calcium. What common acids cannot be present?
An alkaline solution contains mercury. Under what conditions is this possible?

2. What substances are obtained by acting on zinc with sulphurous and sulphuric acids respectively, out of contact with the air? How would you distinguish them?

3. Describe the reactions by which sulphuric ether is formed from alcohol.

4. What is prussian blue and what light does it throw on the relationship of the ferrocyanide and ferricyanide of potassium? How can the existence of iron in these compounds be proved?

5. How can metallic silver be got from the chloride? How could you detect nitrate of potassium and nitrate of copper if present in small quantities in nitrate of silver?

FOR B.Sc.

6. For the separation of the ammonium sulphide group several methods are proposed, as by ammonia, caustic soda, barium carbonate, hydrochloric acid. Criticise those methods, and say which is to be preferred. Phosphoric acid is supposed to be absent.

7. Give examples with equations of the oxidizing and reducing actions respectively of nitrous acid, of arsenious acid, of sulphurous acid, of chromic acid.

8. How could the presence of an alkaline sulphide, hyposulphite, sulphite and sulphate in a solution be confirmed?

9. A litre of a mineral water yielded .0134 gre. AgI. How much iodine is contained in 100,000 parts of the water?

And questions 3 and 4.

BOTANY.

5th April, 1889.

1. What is meant by transpiration? How is it controlled? How can it be demonstrated that transpiration is greater by day than at night?

2. What are chlorophyll corpuscles? Where are they found. How are they multiplied? What do you know of their function?

3. Show, in as few words as possible, how increase in number of individuals is effected in *Pinus*, *Selaginella*, *Fucus*, *Mucor*, *Spirogyra*.

4. Name and classify the constituent tissues of a typical vascular bundle, and ascribe to each its probable function.

5. Explain the expression "alternation of generations," and show how in Mosses and Ferns the life-cycle may be lengthened or curtailed.

Only FOUR answers to be attempted.

7th October, 1889.

1. Describe briefly the process of secondary thickening in a Dicotyledonous stem, and explain the use of it.

2. Briefly compare the following organisms as regards their *nutrition*.

- | | |
|------------------------------------|--------------------------------|
| 1. Cabbage. | 5. <i>Fucus</i> . |
| 2. Mistletoe. | 6. <i>Sporogonium</i> of Moss. |
| 3. Eyebright (<i>Euphrasia</i>). | 7. <i>Mucor</i> . |
| 4. Dodder (<i>Cuscuta</i>). | 8. <i>Phytophthora</i> . |

3. What are nectaries? Where do they occur? Explain clearly their biological significance: illustrate by examples and drawings.

4. What is sclerenchyma? Describe its usual structure, its distribution, and its uses.

5. Explain briefly how *Oedogonium* is multiplied, and indicate its place in the scale of plants.

Only FOUR questions to be attempted.

NATURAL HISTORY.

5th April, 1889.

Only FIVE out of seven questions are to be answered.

1. Describe the nervous system of the earthworm, lobster, echinus, and fresh-water mussel.

2. Describe the fore limb of a bird and bat, of a horse and ox.

3. Describe the structure of the medicinal leech.

4. Give the general characters of the cetacea. Mention any other aquatic orders of mammalia.

5. Mention and describe briefly the modes of reproduction among infusoria.

6. State the dental characters of rodents, ruminants, carnivores, and cetaceans.

7. Give the general characters of the tunicates. In what respects do they resemble amphioxus (the lancelet)?

FOR B.Sc.

In addition to FIVE of the above, Candidates are to answer the following.

8. State the difference between protozoa and metazoa.

9. What is a gastrula? and what is the origin of the mesoblast in an invaginate gastrula?

10. Sketch the digestive arrangements in infusoria, hydrozoa, leeches, and insects.

7th October, 1889.

1. Describe the adult *taenia solium*: give an account of its life history and mention any other parasitic worms which inhabit man.

2. Describe the respiratory system of the marsipobranchii (cyclostomi), and point out how their breathing organs differ from those of the dipnoi and elasmobranchii respectively.

3. Give the general characters of the cephalopoda.

4. Give the distinctive characters of foraminifera, radiolaria, heliozoa.

5. Wherein do the chaetopoda and hirudinea differ as regards the alimentary canal and segmental organs?

II.—SECOND PROFESSIONAL EXAMINATION.

DESCRIPTIVE ANATOMY.

6th April, 1889.

1. Describe the serratus magnus and its position in relation to other muscles.

2. Describe the thyroid, cricoid, and arytenoid cartilages, and their movements one on another.

3. Describe how the different kinds of blood corpuscles differ in respect of structure, dimensions, and behaviour under different circumstances and modes of treatment.

4. Give a short account of the notochord and what becomes of it.

8th October, 1889.

1. Describe the position of the body and head of the astragalus relatively to other bones of the foot, and give an account of the ligaments by which this position is maintained.

2. Describe the following muscles and their actions :—The pectoralis minor, the pterygoideus externus, and the sterno-mastoidens.

3. Describe the disposition of bloodvessels within the liver, pointing out the different courses taken by blood within that organ.

4. Describe the grey matter of the cerebral convolutions as it appears to the naked eye and in its microscopic structure in different parts of the hemispheres.

INSTITUTES OF MEDICINE, OR PHYSIOLOGY.

6th April, 1889.

1. Distinguish physiologically between the columns of Turek, the crossed pyramidal tracts, and the columns of Goll in the spinal cord.

2. Describe the phenomena occurring during a complete cycle of the heart's action.

3. State the amounts of the chief constituents excreted *per diem* by the kidneys.

4. How may it be demonstrated that irritability is an inherent property of muscle? How is the irritability of the muscle affected by the action of a motor nerve?

To be answered only by Candidates for B.Sc.

5. Describe a method for the collection and analysis of the gases of the blood, and state the quantitative results that have been obtained.

6. Contrast the structure of the electric organ of *Torpedo* with that of *Gymnotus*, and compare the electric phenomena with the phenomena of muscular contraction.

8th October, 1889.

1. Draw and explain a normal sphygmographic tracing, and point out some of the phenomena of the circulation that may be detected by the use of the sphygmograph.
2. Describe the microscopical appearances that may be observed in a secreting cell, before and after secretion.
3. Give an account of (a) the structure, (b) the functions, and (c) the innervation of the iris.
4. Give an account of the formation and uses of the three embryonal vesicles : umbilical vesicle, amnion, and allantois.
5. What do you understand by the term *internal capsule*? Give a short account of its relations to other parts and of the functions of the fibres, in (a) the anterior, (b) middle, and (c) posterior portions.

FOUR questions only to be answered by Candidates for M.B.

CANDIDATES FOR B.SC. MUST ANSWER ALL THE QUESTIONS.

3.—THIRD PROFESSIONAL EXAMINATION.

REGIONAL ANATOMY.

8th April, 1889.

1. Describe the positions of the divided muscles, arteries, veins, and nerves seen in a transverse section of the leg midway between the knee and ankle joints.
2. Describe the sympathetic and pneumogastric nerves in the neck.
3. Describe the parts implicated in the lateral operation of lithotomy, stating the structures to be successively divided and those to be avoided.

9th October, 1889.

1. Describe the lesser sac of the peritoneum, including the foramen of Winslow and the visceral surfaces clothed by the sac.
2. Give a complete description of the right and left common and external iliac arteries and veins.
3. Describe the origins and courses of nerves to the teeth, palate and nasal fossæ.

MATERIA MEDICA AND THERAPEUTICS.

8th April, 1889.

1. Enumerate the hypodermic injections of the B. P., giving the composition, strength, and doses of each.
2. Give an account of the mode of preparation of the various extracts of the B. P. State the average dose of extracts, and mention those which require to be given in relatively smaller doses.
3. Give the various methods by which mercury, or its salts, may be administered in the treatment of syphilis.

4. Mention the different domestic measures in ordinary use for the administration of medicines, and state their equivalents in fluid drachms or ounces.

5. State the action of tea, coffee, cocoa, alcohol, and wines on the salivary and peptic digestions.

FOUR questions to be answered.

9th October, 1889.

1. What is massage? How is it conducted? State in what forms of disease this mode of treatment has been recommended.

2. Enumerate the different mixtures of the B. P., and state the composition and strength of one containing iron.

3. Give the characters of salicin, and of the natural and artificial salicylic acids. Mention the mode of administration, and their chief therapeutic uses.

4. Describe the physiological action of chlorate of potassium, and enumerate the different diseases in which it has been found beneficial; and state how you would deal with a case of poisoning by this drug.

5. Write in unabbreviated Latin a prescription for a tonic to be used in the convalescent stage of a fever or acute disease.

FOUR questions to be answered.

4.—FINAL PROFESSIONAL EXAMINATION.

SURGERY.

9th July, 1889.

1. By what signs do you recognize invagination of the bowel in a child, and how is it to be treated?

2. Describe *carefully* the method of trephining the skull, and state what the conditions are which may call for it?

3. What may cause failure of union in the fracture of a long bone, and how is that condition to be treated?

4. What are the causes, the usual position, the symptoms, and the treatment of stricture of the œsophagus?

5. Describe *in minute detail* the methods of radically curing hydrocele of the tunica vaginalis.

NOTE.—THREE of the five questions to be answered.

PRACTICE OF MEDICINE.

9th July, 1889.

1. Define aphasia, and describe the different forms which it may present, with the lesions which are found after death.

2. In what diseases is splenic enlargement met with, and how would you distinguish clinically the causes of enlargement from each other?

3. Describe fully the treatment you would adopt in a case of enteric fever; mention the more frequent complications which occur in the

course of the disease ; and suggest appropriate methods for obviating or removing these complications.

4. A man, aged 58, complains of breathlessness and palpitation. He states that he has, until recently, enjoyed very good health, and that he has always led a regular and temperate life. For many years his urine was high-coloured, but during the last two years it has been very pale and much more abundant than formerly.

The patient's face is ruddy ; the cheeks are marked by venous stigmata ; and the temporal arteries are tortuous. The tongue is clean but raw. The radial artery is hard, resistant, and tortuous ; the pulse small and incompressible. The apparent apex-beat is outside of the mammillary line. The first sound of the heart is loud and deficient in quality at the apex, and in the neighbourhood of the xiphoid cartilage. The second sound is greatly accentuated at the base, particularly at the aortic cartilage. No murmurs can be detected at any point, except over the upper part of the manubrium sterni, where a soft ventricular-systolic murmur can be heard. The lungs are healthy. The urine has a specific gravity of 1,009. It gives no cloud when tested with cold nitric acid, but, when the upper layer is boiled after the addition of two or three drops of acetic acid, a faint haze can be seen.

Complete the case by pointing out its probable nature, and supplying the links required in the chain of evidence (particularly in regard to the chemical and microscopical characters of the urine) necessary to form a complete diagnosis. Write a commentary on the case, and describe fully how you would treat it.

N.B.—In the two last questions the prescriptions are to be written out as if for the chemist, with directions to the patient in English.

MIDWIFERY AND GYNÆCOLOGY.

10th July, 1889.

1. Under what circumstances are the induction of abortion and of premature labour severally justifiable. Enumerate the various methods which may be adopted, and describe that which you yourself would prefer.

2. Describe the nature, causes, symptoms and treatment of puerperal septicaemia : state how it is to be distinguished from simple inflammatory affections occurring in the lying-in woman ; and detail the preventive measures necessary in all cases of labour.

3. What is menorrhagia ? What conditions give rise to it, and what treatment should in each condition be followed for its relief ?

4. Describe the process of bi-manual examination of the pelvic organs, apart from pregnancy, noting the more important points which may be revealed by this method of investigation.

FORENSIC MEDICINE.

8th July, 1889.

1. Discuss the various causes of death from wounding, and state any circumstances which might lessen the responsibility of the person who inflicted the wounds.

2. A dead body being withdrawn from the water, what appearances would lead you to a diagnosis of death from gun-shot, and subsequent immersion?

3. Define "live-birth" in the legal acceptation of the term. What appearances connected with the dead body of a child would indicate that it had been

1. Born alive?

2. Still born?

4. Give in detail the symptoms to be expected in a case of poisoning by opium, and describe the treatment which should be adopted.

5. Some vomited matter having been given to you for examination, how might you ascertain by Marsh's process the presence of

1. Arsenic?

2. Antimony?

NOTE.—Only FOUR of the above questions to be answered, of which the fifth must be one.

PATHOLOGY.

9th July, 1889.

1. What are the four most frequent seats of primary cancer? Mention the probable reasons for the frequency in these situations, and describe the form of cancer most common in each.

2. Describe the usual anatomical conditions in perimetritis and perityphlitis respectively, and mention how they are usually brought about.

3. What are the lesions in the large white kidney and the amyloid kidney respectively?

4. Describe the appearances met with post mortem in an ordinary case of chronic caseous phthisis, including the lesions in the lungs and elsewhere.

5. What are the usual causes of hæmorrhage in the brain? Mention the commonest seats of such hæmorrhage with the reasons for their selection, and describe the appearances visible in the brain when death has followed in a few days after the hæmorrhage.

Only THREE questions to be answered.

VI.—CLASS EXAMINATIONS.

JUNIOR AND MIDDLE HUMANITY CLASS.

November, 1889.

1. Write down in a tabular form the meaning, the gender, and the genitive singular and plural of the following nouns—*gens*, *cornu*, *virtus*, *socer*, *iecur*, *vis*, *pecus*, *vulpus*, *bos*, *iter*, *tellus*, *palmus*, *gener*, *cadaver*, *crus*.

2. Decline in full, in all genders and both numbers—*quisque—alter—alacer—monens*.

3. Write down—

(a) The 1st pers. plupf. indic. act.,

(b) The 2nd pers. present subj. act.,

(c) The nom. sing. masc. of the future participle, and

(d) The future infinitive passive, of the following verbs, noting what tenses (if any) are wanting—*mordeo—coquo—pungo—veto—haurio—reor—emo—elicio—uro—torqueo—respirio—fulcio—fruor*.

4. Give the Latin for ;—

(a) Whatsoever, (b) as often as, (c) every, (d) each individually, (e) the second, (f) all the best men, (g) five times, (h) five thousand, (i) the thousandth, (k) the sooner the better.

5. Translate the following :—

(a) Apud me, (b) in urbem, (c) pectore tenns, (d) ultra fas, (e) clam matrem, (f) regibus expulsis, (g) ecquem novisti? (h) res eodem est loci, (i) est mihi domi pater, (k) spectatum veniunt, (l) vereor ut mortuus sit, (m) cui bono?

6. Translate into Latin :—

(a) Having served his master with fidelity, he died respected by all good men.

(b) I would never have let her go to Athens had I not thought that she wished it.

(c) Pray tell me who you are, why you have summoned me here, and what you are going to do next.

(d) After passing ten years as imperator in further Gaul, Cæsar knew not how to set bounds to his ambition : thinking that everything ought to bow before him, and that he would carry all before him with the first onset, he made straight for Rome.

XI.—VACATION EXERCISES, *Etc.*

FOR 1890-91.

CLASSES OF ORIENTAL LANGUAGES.

Prizes are offered for Summer Readings :—

- I. To Students of the Junior Hebrew Class of 1889-90.
 1. For an original composition in Hebrew.
 2. For the best profession in Hebrew Reading.
 - II. To Students of the Senior Hebrew Class of 1889-90.
For the best profession in Hebrew Reading.
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MATHEMATICAL CLASSES.

Prizes will be given in the Mathematical Classes for Examinations to be held in November, 1890.

For Students in Lower Junior, 1889-90.

Charles Smith's Elementary Algebra.

For Students in Upper Junior, 1889-90.

Lock's Trigonometry, first part.

Casey's Sequel to Euclid, pp. 1-100.

For Students in Senior, 1889-90.

Geometrical and Analytical Conics.

MORAL PHILOSOPHY CLASS.

- I. Open to Students of Session 1889-90.
 1. An Examination on Kant's Critiques of Pure and Practical Reason.
 2. An Examination on Plato's Works.
 - II. Open to Students of Session 1890-91.
 1. An Examination on Ferrier's Lectures on Greek Philosophy, pp. 1-266 ; and Zeller's Socrates and the Socratic School.
 2. An Examination on Plato's Republic (Jowett or Vaughan's Translation).
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LOGIC CLASS.

VACATION ESSAYS AND READING.

- I. *For Students of Session 1889-90.*

A.—ESSAYS.

1. The Method of Kant and its Legitimate Results.
2. Theories in Perception of Locke, Berkeley, Hume, Reid, and Hamilton. Statement and criticism.

B.—READING.

1. *Knowing and Being*.
2. Descartes' *Method, Meditations* (English Translation of 1879 or subsequent editions), with the Introductory Essay.
3. Hamilton's *Discussions, Philosophy of the Unconditioned, Philosophy of Perception and Logic*, with Appendix I., Philosophical.

A student may take up one or more of the subjects prescribed. The Essay to be given in to the Professor on Thursday, 4th December, 1890, with sealed letter containing author's name and motto.

The Examination in reading will take place before Christmas.

11. For students who propose to join the Class for the first time in November, 1890, the following Reading is recommended, viz. : *Institutes of Logic*, Part I., chapters i., ii., iii., iv., vi., vii., viii., ix., x., xi. (large print only) ; Descartes (English Translation of 1879 or subsequent edition), *Introduction*, sections I. II., III., and *Discourse on Method*.

Prizes will be given for examination in this department. The examination will take place early in November, 1890.

ENGLISH LITERATURE.

VACATION READING.

For students of either class during Session 1889-90.

1. Tennyson's *Idylls of the King*, to be read in connection with Malory's *Morte d'Arthur*.
2. Carlyle's *Sartor Resartus*.

The examination will take place early in November, 1890. Students are expected to offer both subjects.

GREEK CLASSES.

VACATION EXERCISES.

- I. Open to the Senior and Private Class of Session 1889-90.
Translation into Greek Prose—*The Talisman*, chap xi., “Leopold, Grand Duke of Austria . . . League of the Crusaders.” To be sent in by November 9th, 1890.
- II. Open to the Senior Class of Session 1890-91.
 1. Translation into Greek prose—Grote's *History of Greece*, vol. viii., p. 115, small edition, “A special despatch . . . affectionate solemnities.” To be sent in by November 9th, 1890.
 2. A written examination on Æschylus, *Prometheus Desmotes*, to be held in November, 1890. [Editions by Paley or by Prickard.]
- III. Open to the Middle Greek Class of Session 1890-91.
 1. An original Greek Prose Composition, at least 100 words long, on any subject, to be sent in by November 9th, 1890.
 2. A written examination on Xenophon, *Cyropaedia* I. and II., to be held in November, 1890.

HUMANITY CLASS.

Prizes will be given for Vacation Exercises as follows :—

- I. Open to all students who shall enrol in the Senior Class of 1890-91, for the best Examination in the following subjects :—
 1. Livy, XXI. (Capes).
 2. Horace, *Odes* II. ; Virgil, *Georgics* I., II.
- II. Open to all members of the Junior Class, 1889-90.
 1. Virgil, *Aeneid* II., lines 1-468 (Sidgwick).
 2. Cicero, *De Senectute* (Sidgwick or Reid).
- III. For Latin Prose—Open to all members of the Senior Class, 1889-90. For the best translation into Latin of Cowley's Essays, Essay on Agriculture (Cassell's National Library, p. 64), from the beginning to the words "troublesome and dangerous."
- IV. For Latin Prose—Open to all students who shall enrol in the Senior class of 1890-91. For the best translation into Latin Prose of Thackeray's *Esmond*, book III., chap. 12, from "Our friends kept a pretty close watch" . . . down to "before his business was ended."

The Examinations in the above subjects will be held early in November, 1890. The exercises must be sent in to the Professor on or before November 15th. Each exercise must bear a motto and be accompanied by an envelope bearing the same motto, with the writer's name inside, together with a statement that the exercise is his own unaided work.

CLASS OF BOTANY.

A Prize is offered to Students in the Class of Botany in Session 1891 for the best and approved Herbarium of Scottish Phanerogamous and Vascular Cryptogamous plants, to be named after Hooker's "Students' Flora of the British Islands." The specimens must have been collected upon the mainland of Scotland, or upon the Scotch Islands, between 9th July, 1890, and 9th July, 1891, and must have affixed, in addition to the name, the date and locality of collection.

The Herbaria must be sent, addressed to the Professor of Botany, to the University of Glasgow, on or before 9th July, 1891, and with each a sealed note bearing a motto outside, and containing the name of the competitor, with a declaration that the plants in the collection have all been gathered by himself in Scotland, and within the period above stated, and that they have been named by him without assistance save that derived from books or Herbaria.

The collections must be accompanied by a numbered and arranged list of the plants contained in them.

XII.—ABSTRACT OF THE PROCEEDINGS OF THE UNIVERSITY COURT.

FROM 16TH MAY, 1889, TO 8TH MAY, 1890.

The Court met on 16th May, 1889. Present, The Principal (in the Chair); Sir James King, Bart.; Sheriff Berry; Mr. James Grahame; and Professor Ramsay.

A letter was submitted from the Clerk of Senate, dated 29th April, 1889, intimating the appointment of Sheriff Berry as Dean of Faculties for the year then ensuing.

Five excerpt Minutes of Senate on the subject of Special Readers at the Library were submitted.

A letter dated 27th April, 1889, from the Clerk of the General Council, transmitting a representation from that body on the subject of the appointment of Extra-Mural Teachers as Examiners was submitted, and the Secretary was instructed to reply that the sole principle by which the University Court allows itself to be guided in the selection of persons to fill up vacant Examinerships has always been an impartial consideration of the qualifications of the various candidates; that the Court has acted upon this principle in the case of all candidates alike; nor is it aware of having failed "to give sufficient consideration to the claims of teachers of Extra-Mural Schools, whose Lectures are recognized as qualifying Lectures by the University," or of having regarded these claims less favourably than those of other applicants.

The Court considered a Report by the Edinburgh University Court as to a proposed alteration of Ordinance No. 23, Edinburgh No. 5, Section xl. (Amenity of Principal's official house) and resolved that no observations thereon should be made to Her Majesty in Council by this Court.

The Court approved of a course of 24 Lectures on German Literature to be delivered next Session by Dr. Fiedler, and fixed the fee, and further approved of this course of Lectures being brought under the alteration of Ordinance No. 22, Glasgow No. 4, Section xxviii., authorized on 21st February, 1888.

An application for recognition of the Lectures of Professors of University College, Dundee, was remitted to the Senate for their Report.

The Court considered a Petition from Professor Nichol for leave to retire from his Chair on account of ill-health and failing strength, together with relative medical certificates, and resolved to report to Her Majesty in Council in favour of the Petition being granted.

The Court met on the 25th July, 1889. Present, The Principal (in the Chair); Sir James King, Bart.; Sheriff Berry; Dr. Cochran-Patrick; Mr. James Grahame; and Professor Ramsay.

The Secretary reported that by Order in Council of 28th May, 1889, Her Majesty had consented to the alteration of Ordinance No. 15, Glasgow No. 2, Section vii. (1) (Practical Midwifery) proposed by the Court on 20th March last. He also reported that the Report on Professor Nichol's retirement had received the approval of Her Majesty in Council, by Order of 28th May, 1889, and that this had been intimated to Her Majesty's Treasury and Her Majesty's Secretary for Scotland.

Two excerpt Minutes of Senate on the subject of Special Readers at the Library were submitted.

The Court considered a Petition from Professor James Thomson, together with relative medical certificates, for leave to retire from his Chair on account of ill-health and a very serious failing in his eyesight, and resolved to report favourably thereon to Her Majesty in Council.

The Secretary reported that he had received from the Senate a formal intimation of the retirement of Professor Jebb from the Greek Chair. He further reported that applications and testimonials for the vacancy had been received from 12 candidates, and the Court having carefully considered these applications and testimonials unanimously elected Mr. George Gilbert Aimé Murray, B.A., Fellow of New College, Oxford, to the vacant Chair.

The Court approved of the delivery during the Summer by Dr. A. E. Maylard, B.S., of a course of 15 lectures, on the subject of Bacteriology, and approved of this course of Lectures being brought under the alteration of Ordinance No. 22, Glasgow No. 4, authorized on 21st February, 1888.

The Court also approved of the delivery of the second course of 25 Lectures on Organic Chemistry by Mr. G. G. Henderson, B.Sc., and fixed the fee.

The Secretary having submitted to the meeting (1) a Report of the University Court of Aberdeen, proposing alterations on Ordinance No. 16, Aberdeen No. 6, Sections x. to xiv., and Section xxii. (Arrangement of Professional Examination); (2) observations of the Edinburgh University Court relative thereto; and (3) an excerpt Minute of Senate thereon, dated 25th July, 1887, the Court resolved that the present moment is inopportune for the effecting of such changes as those proposed by the University Court of the University of Aberdeen.

An application from the University of New Zealand, dated 27th June, 1888, was next considered, and also a letter from the Clerk of Senate, reporting that the Senate had considered the application, and are of opinion that it has already been fully provided for by Ordinance No. 15, Glasgow No. 2, seeing that the University of New Zealand is entitled to grant a Degree of Doctor of Medicine, and that one of its Colleges is a fully equipped Medical School.

The Secretary was instructed to answer the New Zealand application in terms of the Clerk of Senate's letter.

Applications for continued recognition of Lectures from the following Extra-Mural Teachers who are about to make a change of Teaching premises, from the old Buildings of Anderson's College in George Street, to the new Buildings in Dumbarton Road, were received and remitted to the Senate for their Report:—Dr. James Dunlop, Dr. A. M. Buchanan, Dr. Samson Gemmell, Dr. Ebenezer Duncan, and Dr. Wm. L. Reid.

The Court met on the 13th November, 1889. Present, The Principal (in the Chair); Sir James King, Bart.; Sheriff Berry; Mr. James Grahame, Dr. Cochran-Patrick; and Professor Ramsay.

The Secretary reported that by Order of 19th August, 1889, the Court's Report upon the retirement of Professor Thomson had received the approval of Her Majesty in Council.

Letters were laid upon the table intimating the following re-appointments of Class Assistants:—by Professor Murray of Mr. Alexander Murdoch, by Professor Ramsay of Mr. John Brown, M.A., and by Professor Jack of Mr. George A. Gibson, M.A.

Letters from the Clerk of Senate were read, intimating the induction according to the usual form, of Professor Bradley to the Chair of English Language and Literature; Professor Murray to the Chair of Greek; Professor Barr to the Chair of Civil Engineering and Mechanics; and Professor Moir to the Chair of Conveyancing, vacant through the death of the late Professor Sir James Robertson.

On the recommendation of the Senate, the Court resolved to continue the recognition of the following Extra-Mural Lecturers, who are now changing their Lecture Rooms to the New Buildings of Anderson's College:—Dr. James Dunlop, Dr. A. M. Buchanan, Dr. Samson Gemmell, Dr. Ebenezer Duncan, Dr. Wm. L. Reid, and Dr. Alex. Napier.

The following applications were remitted to the Senate for their Report, viz.:—Applications from Mr. Robertson Watson and Dr. Christie for continued recognition, owing to the change of Lecture Rooms to the New Buildings of Anderson's College School, and applications for recognition for the first time from Dr. Steven, 34 Berkeley Terrace, Dr. A. Robertson, 16 Newton Place, Dr. White, of North Wales University College, and Dr. P. Caldwell Smith, of Motherwell.

Upon the recommendation of the Senate, the Court agreed to recognize the Lectures of Professor A. M. Paterson on Practical Anatomy; Professor Percy F. Frankland on Practical Chemistry; Professor Patrick Geddes on Botany; and Professor D'Arcy Thomson on Zoology, all of the University College, Dundee.

Four Minutes of Senate on the subject of Special Readers at the University were submitted.

The Court appointed Mr. David Hannay and Mr. Robert Peel Lamond, Writers, Glasgow, to be Assistant Registrars for this year, for the purposes specified in Section 35 of the Representation of the People of (Scotland) Act, 1868.

The Court re-appointed Alexander Crum, Esq., of Thornliebank, and Professor W. T. Gairdner, M.D., to be Governors of the Victoria Infirmary, and A. B. McGrigor, LL.D., and John Pirie, Esq., to be Managers of the Western Infirmary for the ensuing year.

The Court considered a reply by the Aberdeen University Court on the question of the proposed alteration of Ordinance No. 16, Aberdeen No. 6, and adhered to their opinion formerly expressed. The Secretary was instructed to intimate this decision in usual form to the Privy Council and the other University Courts.

THE NEW COURT.

The New University Court, as constituted under the "Universities (Scotland) Act, 1889," met on 24th January, 1890. Present, The Principal (in the Chair); The Lord Provost; Mr. James Grahame (Rector's Assessor); Mr. James Colquhoun (Town Council's Assessor); Dr. Hector C. Cameron, Sir J. Neilson Cuthbertson, and Mr. David Hannay (General Council's Assessors); Professor Ramsay, Sheriff Berry, Professor Leishman, and Professor Stewart (Senate's Assessors).

An apology for absence was intimated from Dr. Cochran-Patrick.

The Principal read a declaration by the Scottish Universities Commissioners, dated 13th January, 1890, declaring the Court duly constituted. He also read letters and notices from the various electing Bodies, intimating the election of the new Assessors.

Mr. Alan E. Clapperton, Writer, Glasgow, was appointed Interim Secretary.

It was remitted to the Principal and Professor Ramsay to select a Design for the Common Seal to be used by the Court.

Four excerpt Minutes of Senate on the subject of Special Readers at the Library were submitted.

The Secretary submitted a copy of remarks by the Edinburgh Court upon the reply of the Aberdeen Court on the proposed alteration of Ordinance No. 16, Aberdeen No. 6.

The Librarian's Report for the year 1888-89 was submitted and remitted to the Principal and Dr. Cochran-Patrick.

A letter from the Clerk of Senate was read, transmitting a print of revised regulations for graduation in Science, and the Court, after consideration of these regulations, agreed to approve of them for the present, without prejudice to any further dealing with the subject in connection with the whole question of Graduation.

The Court agreed to recognize the Lectures of Percy F. Frankland on Systematic Chemistry and Professor A. M. Paterson on Systematic Anatomy, both of University College, Dundee, in addition to the recognition already extended to these Lecturers.

An application for recognition by Professor E. Waymouth Reid, of University College, Dundee, was remitted to the Senate for their Report.

Messrs. Hill & Hoggan, Writers, Glasgow, were appointed Interim Factors.

The Court agreed to sanction the continuation in the meantime of the existing arrangements made by the Senate as to the College Servants.

A General Committee was appointed to consider and report upon the various functions of the Court under the new Act.

It was resolved in accordance with Section 19 (1) of that Act to give notice of the intention of the Court to submit Draft Ordinances to the Commissioners. A Committee was appointed to consider and report upon the preparation of these Ordinances.

The Court agreed to grant the use of the College field for drill purposes this year to Colonel Mackenzie on the same terms and conditions as in previous years.

It was resolved that the Ordinary Meetings of the Court should in future be held as far as possible on the last Thursday of each month, with the exception of August and September.

The Court met on 27th February, 1890. Present, The Principal (in the Chair); The Lord Provost; Sir James King, Bart.; Dr. Hector C. Cameron; Sir J. Neilson Cuthbertson; Mr. David Hannay; Professor Ramsay; Sheriff Berry; Professor Leishman; Professor Stewart.

The Court took up the appeal of the Librarian against the decision of the Senate upon his claim for remuneration for the preparation of the Student's Catalogue. The Secretary read Mr Lymburn's Note of Appeal and other papers, and thereafter the Court heard Mr. Lymburn in support of his Appeal, and also Dr. Dickson, who attended to give any information desired from the Senate. After full consideration the Court dismissed the Appeal, but taking into account the services rendered by Mr Lymburn, in compiling the Student's Catalogue, resolved to vote him an Honorarium.

In answer to a letter from the Secretary of the Scottish Universities Commission, the Secretary of the Court was instructed to reply that the Court have no present intention of framing any Draft Ordinance with regard to the Constitution of the Students' Representative Council.

An excerpt Minute of Senate on the subject of Special Readers at the Library was submitted.

The Court determined to make payment of the balance of money still due to the Athletic Club.

Upon the recommendation of the Senate, the Court agreed to continue the recognition of the Lectures of Dr. Robertson Watson, and Dr. Christie; and to recognize the Lectures of Dr. Steven, Dr. Robertson, Dr. White, and Dr. E. Waymouth Reid.

The Librarian's Report for the year 1888-89 was submitted, along with some remarks by Dr. Cochran-Patrick and was approved.

The Court met on 7th March, 1890. Present, The Principal (in the Chair); Sir James King, Bart.; Mr. James Colquhoun; Dr. Hector C. Cameron; Sir J. Neilson Cuthbertson; Mr. David Hannay; Professor Ramsay; Sheriff Berry; Professor Leishman; Professor Stewart.

Professor Stewart presented a Report on behalf of the General Committee, and the meeting having considered the same, approved and adopted it, and resolved (1) That Messrs. Hill & Hoggan be re-appointed Factors; (2) That Messrs. Mitchells, Johnston & Co. be re-appointed Law Agents; (3) That the following Committees be appointed: (a) A *Works Committee*, to consist of the following Members:—Professor Stewart (Convener), The Principal, Professor Ramsay, Sheriff Berry, and Professor Leishman, to advise the Court as to any structural alterations of the Buildings as to lighting, heating and ventilating, and other such matters; and (b) A *Finance Committee*, to consist of the following Members:—Mr. James Colquhoun (Convener), The Principal, Sir James King, Bart., Mr. James Grahame, Sir J. N. Cuthbertson, Mr. David Hannay, and Professor Stewart, to advise the Court as to investments and securities, and to prepare an annual report of the Finances under the Universities (Scotland) Act, 1889, Section 30; and (4) That the Senate be requested to undertake to the end of the present year the work hitherto done through the House Committee.

A letter was submitted from the Indian Fellowship Endowment Fund, containing a remittance of the share (one fourth) falling to this University, of money subscribed for the purpose of founding an Indian

Fellowship at the Scotch Universities. The letter explains that the subscriptions having been found wholly inadequate for the purpose, the Universities are now asked to apply their respective shares of the money, at the discretion of the authorities, for the encouragement of learning among Graduates. It was also reported that the Principal had acknowledged receipt of the remittance. Further consideration was deferred.

Ten applications for the vacant Assistant Examinership in Mathematics were submitted, and after considering these applications and testimonials the Court appointed Mr. James Buchanan, M.A., of Peterhouse, Cambridge, for the period of three years from 1st January last.

The Court determined to continue the usual allowance to the Divinity Hall Library, amounting in all this year to £45 2s.

The Court approved of the following Tutorial Classes to be held in the University during the Summer, and fixed the fees. Two classes by Mr. Magnus McLean, M.A., Assistant to the Professor of Natural Philosophy; two classes by Mr. George Gibson, M.A., Assistant to the Professor of Mathematics; and a class by Mr. Alexander Murdoch, Assistant to the Professor of Greek.

The Court met on 27th March, 1890. Present, The Principal (in the Chair); Dr. Hector C. Cameron; Mr. David Hannay; Professor Ramsay; Sheriff Berry; Professor Leishman; and Professor Stewart.

The Secretary submitted a representation which he had received from the General Council to the effect that the Library Fees paid by the members of the Council and Special Readers should be considered part of the special income of the Library for the purchase of Books, and was instructed to reply that the Court are of opinion that no change need be made, seeing that these fees are paid into the General Fund of the University, from which grants greatly exceeding the subscriptions are made for Library purposes.

The Court authorized the modification of the fee charged by the Professor of Biblical Criticism for his class of Hellenistic Greek to one guinea in the case of Students attending his ordinary Class.

Professor Ramsay presented a Report on behalf of the Ordinances Committee recommending certain changes in the Ordinances of the Medical Curriculum. The Report was approved and remitted to be thrown into the form of Draft Ordinances.

The Court remitted to the Finance Committee to consider and report upon the question of a proposed Fee-Fund.

Professor Ramsay presented a Report by the Ordinances Committee recommending certain changes in the Ordinances applicable to the Faculty of Law. The Report was approved and remitted to be thrown into the form of Draft Ordinances.

Professor Ramsay presented a letter from the Secretary of the Athletic Club, asking leave to charge Students who are not members of the Club the full admission sum of 1s. at the annual sports this year. The Court determined to allow the charge, and instructed the Secretary, in writing to the Secretary of the Athletic Club, to point out certain other conditions as to the Athletic Club's use of the field.

The Court met on 17th April, 1890. Present, The Principal (in the Chair); The Lord Provost; Mr. James Colquhoun; Sir J. Neilson

Cuthbertson; Mr. Hannay; Professor Ramsay; Sheriff Berry; Professor Leishman; and Professor Stewart.

The Court approved of a course of Lectures on Organic Chemistry, to be delivered during the Summer by Mr. George Henderson, B.Sc., and fixed the fee.

The Court approved of two summer tutorial classes by Mr. Archibald McLaren, M.A., Assistant to the Professor of Humanity; a summer tutorial class by Mr. John Brown, M.A., Assistant to the Professor of Humanity; and two summer tutorial classes by Mr. Robert A. Duff, Holder of the George A. Clark Scholarship, and fixed the fees.

The Minute of Meeting of the Finance Committee of 9th April, 1890, dealing with various Heritable Securities, Ground Annuals, and other matters, was read and approved.

The Court also approved of a Scheme proposed by the Finance Committee, for controlling the University expenditure and paying Accounts, and that the Tradesmen's and other accounts received up to 31st March should be paid on 10th May, and those received up to 31st October should be paid on 10th December.

The Court appointed Mr. Alan E. Clapperton as their Secretary.

In terms of the remit of last meeting, Draft Ordinances relative to the Medical Curriculum were submitted. The meeting fully considered and revised these Ordinances, and instructed the Secretary to transmit them in their revised form to the Senate in terms of Section 19 (1) of the Act of 1889.

The Court minuted their approval of Professor Barr's re-appointment of Mr Alexander B. Dobbie, B.Sc., as the Young assistant in Engineering.

The Court met on 8th May, 1890. Present, The Principal (in the Chair); The Lord Provost; Mr. James Colquhoun; Dr. Hector C. Cameron; Sir J. Neilson Cuthbertson; Mr. Hannay; Professor Ramsay; Sheriff Berry; Professor Leishman; and Professor Stewart.

Mr. W. Galbraith Miller, M.A., LL.B., Advocate, Edinburgh, Mr. Robert T. Younger, M.A., LL.B., Advocate there, and Mr. W. Craig Robertson, M.A., LL.B., Writer, Glasgow, were appointed Assistant-Examiners in Law for three years from 29th April last.

An excerpt Minute of Senate on the subject of Special Readers at the Library was submitted.

The Court appointed Mr. James Coutts, M.A., Registrar, and Mr. David Stewart, Master of Works—both for a year from 1st May, 1890.

Minutes of Meeting of the Finance Committee of 16th April and 5th May, dealing with the Rents of various Farms belonging to the Donaldson Foundation, and with Estimates for Painter and Slater Work and the Upkeep of the Buildings and other matters, were read and approved.

The Factor's Accounts for the year were laid upon the table, and the Half-yearly Accounts were passed, and precepts for payment signed.

Minutes of Meeting of the Works Committee of 15th April and 8th May were read and approved, dealing with Contracts for Slater and Painter Work, the heating and ventilating of the University Buildings and other matters.

The Chairman of the Ordinances Committee reported receipt of letters from the Secretary of the Universities Commission dealing with the

election of the Lord Rector and the election of the various Assessors, and the Court instructed the Secretary to answer these letters.

The Chairman of the Ordinance Committee also produced a Draft Ordinance relative to the Arts Curriculum, and a Draft Ordinance for the General Council.

These Ordinances were approved.

There was also produced a Draft Ordinance relative to the Faculty of Law. The Ordinance was revised and approved.

The Secretary was instructed to communicate copies of all these Ordinances to the Senate under Section 19 (1) of the Act.

Sir J. Neilson Cuthbertson suggested that "Education" might be instituted as one of the optional subjects for the M.A. Degree, but, as there are at present no arrangements in this University for this subject, it was agreed to take no action in the matter.

XIII.—FINANCIAL STATEMENT OF THE UNIVERSITY FOR THE YEAR 1888-89.

ANNUAL SALARIES (EXCLUSIVE OF CLASS FEES) ATTACHED TO OFFICE OF PRINCIPAL, AND TO THE PROFESSORSHIPS, ASSISTANTSHIPS, LECTURESHIPS, AND EXAMINERSHIPS IN THE UNIVERSITY, BY ORDINANCE OF THE UNIVERSITIES COMMISSIONERS AND DEEDS OF FOUNDATION.

PRINCIPAL.

Salary. £971 15 11

FACULTY OF ARTS.

	Salaries of Professors.	Salaries of Assistants.	Allowances for Class Expenses.
Logic,	£286 11 2	.....	.....
Moral Philosophy,	281 2 4	.....	.....
Natural Philosophy,	299 6 8	£235 0 0	£100 0 0
Greek,	289 8 11	100 0 0	.....
Humanity,	289 8 11	100 0 0	.....
Mathematics,	292 0 0	100 0 0	... ..
Astronomy,	299 8 8	.....	.....
Civil Engineering,	482 15 6	147 0 0	.....
English Literature,	200 0 0	.....	.....
Naval Architecture,	500 0 0	.....	.....
	£3,220 2 2	£682 0 0	£100 0 0

FACULTY OF THEOLOGY.

Divinity,	£392 8 1	.....	.....
Oriental Languages,	300 0 0	.....	.....
Ecclesiastical History,	328 18 0	.....	.....
Biblical Criticism,	519 2 10	.....	... ..
	£1,540 8 11		

FACULTY OF LAW.

Law,	£310 0 0	.....	.....
Conveyancing,	105 0 0	.....	.....
	£415 0 0		

FACULTY OF MEDICINE.

	Salaries of Professors.	Salaries of Assistants.	Allowances for Class Expenses.
Medicine,	£270 0 0	.....	.....
Anatomy,	250 0 0	.....	£200 0 0
Natural History,	209 16 2	.....	.....
Surgery,	100 0 0	.....	.....
Midwifery,	100 0 0	.....	.....
Chemistry,	200 0 0	£200 0 0	70 0 0
Botany,	209 16 2	.....	.....
Materia Medica,	100 0 0	25 0 0	50 0 0
Institutes of Medicine,	150 0 0	106 2 6	.....
Forensic Medicine,	100 0 0	25 0 0	35 0 0
Clinical Surgery,	112 11 6	.....	.....
Clinical Medicine,	112 11 6	.....	.....
	£1,914 15 4	£356 2 6	£355 0 0

LECTURERS.

Waltonian,	£91 5 2
Honyman-Gillespie.*	

ADDITIONAL EXAMINERS FOR DEGREES, &c.

Three in Arts,	£240 0 0
Thirteen in Medicine,	365 0 0
Three in Law,	63 0 0
Three Extra Examiners in Arts,	90 0 0
Two Entrance Examiners,	30 0 0
	£788 0 0

SUMMARY.

The Principal,	£971 15 11
Arts Chairs,	3,220 2 2
„ Assistants,	682 0 0
„ Class Expenses,	100 0 0
Divinity Chairs,	1,540 8 11
Law Chairs,	415 0 0
Medical Chairs,	1,914 15 4
„ Assistants,	356 2 6
„ Class Expenses,	355 0 0
Lecturers,	91 5 2
Examiners in Arts, Medicine, and Law,	788 0 0
	£10,434 10 0

NOTE.—To the Principalship and each of the Chairs founded before 1800 an official residence is attached, and also some small allowances for Taxes, Lighting, House Repairs, &c., amounting in all to about £18.

* This endowment is administered by Trustees

STATEMENT OF THE INCOME AND EXPENDITURE OF THE UNIVERSITY FOR THE YEAR 1888-89.

The College Revenue is derived—(a) From Teinds—arising from grants—by James, Archbishop of Glasgow, in 1557; by James VI., in 1577 and 1618; by Charles I., in 1630; by Charles II., in 1664 and 1670. (b) From Feu-Duties, etc., of lands granted by James, Lord Hamilton, in 1459; William and Thomas Arthurlie, 1466; Queen Mary, 1563; of the lands, etc., of the Friars Preachers, granted by Queen Mary in 1566 to the Town for pious uses, and conveyed by the Town, under Act of Scottish Parliament in 1572, to the College; and from other ancient foundations. (c) From proceeds of investments of the surplus rents of the Archbishoprick of Glasgow, from 1694 to 1839. The lease of the Archbishoprick was granted first by William III., in 1690, for nineteen years, for payment of the then debts of the University, and other University purposes. The lease was renewed by successive sovereigns till 1825, when £100 per annum from the Archbishoprick was added to the salary of the Regius Professor of Botany; and £800 per annum was granted for general University purposes till 1839. In 1841 the Crown applied the £800 per annum to salaries for certain chairs in the patronage of the Crown. (d) From proceeds of investments from time to time of the annual surplus of income over expenditure.

The gross revenue derived from these sources amounted in 1888-89 to £9,368 18s. 1 $\frac{3}{4}$ d. But out of this were paid Ministers' Stipends (£1,590 4s. 8 $\frac{1}{2}$ d.), Income and Property Tax (£179 17s. 3 $\frac{1}{4}$ d.), Bursaries (£125 8s. 11d.), leaving nett income £7,473 7s. 3d., of which £3,681 10s. 11d. has been allocated at various times from 1577 to 1817 to salaries of Principal and Professors, and the balance of £3,791 16s. 4d. is transferred (under Ordinance 22) to the General University Fund as stated below.

INCOME OF THE UNIVERSITY DESTINED BY DEED, STATUTE, OR ORDINANCE.

1. For Salaries of Principal, Professors, and Lecturers:—

(1.) Teinds and Endowments under Charters of James VI., Charles I., and Charles II., etc., as stated above, . . .	£3,681 10 11
(2.) Grants of William III., Queen Anne, Geo. I. and Geo. II., . . .	593 6 8
(3.) Parliamentary Grants, 1807 to 1818, for Foundation of Regius Chairs of Natural History, Surgery, Mid- wifery, and Botany, . . .	300 0 0
(4.) From the Archbishoprick of Glasgow for Regius Chair of Botany, 1825, . . .	100 0 0
Carry forward. . .	£4,674 17 7

Brought forward,	£4,674	17	7	
(5.) Parliamentary Grant (1841), in lieu of King William's Lease of the Archbishoprick of Glasgow, allocated to certain Regius Chairs,	800	0	0	
(6.) Parliamentary Grants under the Financial Ordinance (No. 22) of the Universities Commission,	675	0	0	
(7.) Half Deanery of Chapel Royal (Chair of Bib. Crit.),	*372	2	10	
(8.) Foundation of Conveyancing Chair, paid yearly by Faculty of Procurators,	105	0	0	
(9.) Yates (Shuna) Fund,	0	0	0	
(10.) M'Turk's Foundation,	6	2	5	
(11.) John Elder Foundations,	707	15	6	
(12.) A recent Foundation,	49	1	0	
(13.) Foundation of Clinical Surgery Chair,	112	11	6	
(14.) Foundation of Clinical Medicine Chair,	112	11	6	
(15.) Grant from the Treasury for Augmentation of Principal's Salary,	300	0	0	
(16.) The Black Bequest (Chair of Biblical Criticism),	*147	0	0	
(17.) Waltonian Lectureship,	91	5	2	
	<hr/>			£8,153 7

II. For Class Assistants and Class Expenses :—

(1.) From General University Fund for the Chairs of Natural Philosophy, Anatomy, Chemistry, Materia Medica, and Forensic Medicine, under Ordinance 22,	£455	0	0	
(2.) From Parliamentary Grant for Class Assistants, under Ordinance 22,	650	0	0	
(3.) From the Black Bequest for the "Young" Assistant,	147	0	0	
(4.) From the Arnott and Thomson Demonstratorship Fund,	135	0	0	
(5.) From the Muirhead Demonstratorship Fund,	106	2	6	
	<hr/>			1,493 2 6
Carry forward,	<hr/>			£9,646 10 0

* Exclusive of Income Tax.

Brought forward,	£9,646 10 0
III. For Non-Professorial Examiners :—	
(1.) From Parliamentary Grants, under Ordinances 14 and 15,	£480 0 0
(2.) From General University Fund,	263 0 0
(3.) From Foundations,	45 0 0
	<hr/>
	788 0 0
Total Income destined to Maintenance of Teaching Staff, as above,	£10,434 10 0
Total Disposable Income (£10,819 19s. 3d.) as below, less £455 for Class Assistants and Class Expenses charged below against General University Fund,	10,364 19 3
	<hr/>
Total University Income,	£20,799 9 3
	<hr/>

INCOME AND EXPENDITURE OF GENERAL UNIVERSITY FUND, 1888-89.

INCOME.

1. Balance of Revenue from Teinds, etc., under Charters of James VI. and Charles I., and Capitalized Sav- ings, as stated p. 380,	£3,791 16 4
2. Matriculation Fees,	2,062 15 0
3. Graduation and Examination Fees,	3,908 1 6
4. Library Subscriptions,	81 7 6
5. General Council Registration Fees,	203 0 0
6. Government Compensation for Stationers' Hall Privilege,	707 0 0
7. Income of Legacies for Library, &c.,	59 12 11
8. Student's Catalogue,	6 6 0
	<hr/>
	£10,819 19 3

EXPENDITURE.

I. <i>University Court and Senate</i> —	
1. Secretary to the University Court,	£52 12 0
2. Clerk of Senate,	105 0 0
3. Assistant Clerks and Outlays,	318 7 8
	<hr/>
	£475 19 8
II. <i>General Council</i> —	
Registration, etc.,	229 9 4
	<hr/>
Carry forward,	£705 9 0

Brought forward,	£705	9	0
III. <i>Business, etc.</i> —			
1. Factor's Salary and Outlays,	£475	12	4
2. Law Agents' Accounts,	88	15	0½
3. Auditor,	28	0	0
			<hr/>
		592	7 4½
IV. <i>Libraries</i> —			
1. Librarians' Salaries,	£696	16	8
2. To Account of New Catalogue,	30	12	6
3. Books and Binding,	896	12	11
4. Stationery, etc.,	36	1	0
6. Divinity Hall Library,	44	8	0
			<hr/>
		1,704	11 1
V. <i>Hunterian Museum</i> ,		370	19 9
VI. <i>Observatory</i> ,		235	0 6½
VII. <i>Buildings</i> —			
1. Repairs,	£1,101	6	4
2. Lighting,	248	12	2
3. Heating and Ventilating,	735	4	6
4. Water,	140	18	8
5. Insurance,	242	15	0
			<hr/>
		2,468	16 8
VIII. <i>Service, Cleaning, and Maintenance of Grounds</i> ,		1,259	0 9
IX. <i>Class Assistants and Class Expenses</i> —			
1. Allocated by Commissioners' Ordinance,	£455	0	0
2. Allowed in other Classes,	88	17	9
			<hr/>
	£543	17	9
Not expended,	0	3	7
			<hr/>
		543	14 2
X. <i>Printing and Advertising</i> —			
1. Printer's Accounts,	£326	7	2
2. Newspaper Accounts,	293	10	9
			<hr/>
		619	17 11
XI. <i>Prizes and Medals</i> ,		152	14 9
XII. <i>Compensation for Graduation Fees under Commissioners' Ordinance</i> ,		50	0 0
XIII. <i>Gratuity</i> ,		30	0 0
XIV. <i>Contribution to Glasgow Police</i> ,		21	0 0
XV. <i>Public Burdens, etc.</i> ,		411	10 3
XVI. <i>Law Examiners</i> ,		63	0 0
			<hr/>
Carry forward,	£9,228	2	3

Brought forward,	£9,228	2	3
XVII. <i>Medical Examiners</i> ,	125	0	0
XVIII. <i>Extra Examiners</i> (Share),	45	0	0
XIX. <i>Entrance Examiners</i> ,	30	0	0
XX. <i>Expenses of Deputations</i> ,	8	10	0
XXI. <i>Interest on Loan from late Mr. Randolph's Trust</i> ,	1,030	3	3
XXII. <i>Chapel</i> ,	57	9	8
XXIII. <i>On Account of Clock in Tower</i> ,	10	0	0
XXIV. <i>Miscellaneous</i> ,	151	8	6
XXV. <i>Installation of Rector</i> ,	43	13	2
Total General Fund Expenditure,	£10,729	6	10
Surplus,	90	12	5
Together, equal to Income,	£10,819	19	0

INCOME OF TRUST FUNDS FOR BURSARIES, SCHOLARSHIPS,
AND PRIZES.

1. From Capital Funds in charge of the Senate,	£7,238	14	5
2. From Estate managed by Balliol College, Oxford— 5 Exhibitions, at £80,	400	0	0
3. From Funds in the hands of the Town Council, Merchants' House, and Trustees, about	2,915	0	0
	£10,553	14	5

APPENDIX—I.

LIST OF MEMBERS

INCLUDED IN

THE REGISTER

OF

THE GENERAL COUNCIL

FOR THE YEAR COMMENCING 1st JANUARY, 1890,

WITH ABBREVIATED ADDRESSES, ETC.

N.B.—So far as information has been available down to the time of publishing the Calendar, addresses, etc., have been corrected, and names of deceased Members removed. Members are requested to intimate to the Registrar any change of designation (*i.e.* profession or calling), or of permanent address. Representatives of deceased Members are also requested to make intimation, in order that the names of such Members may be removed.

- Abbot, R. T., M.D., Bray, Co. Wicklow
 Abereromby, R., M.A., minister, Norwich
 Aeworth, W., M.A., minister, South Stoke
 Adam, Alex., M.B., Glasgow
 Adam, Basil J., M.B., 3 W. Garden st., Glasgow
 Adam, David S., M.A., B.D., minister, Banahory
 Adam, Hector M., M.A., minister, Aberdeen
 Adam, Jas., M.A., tea., 42 Buccleuch st., Glasgow
 Adam, James, M.A., M.B., Stirling
 Adam, James A., M.A., student, Glasgow
 Adam, John, M.B., 13 George street, Paisley
 Adam, John, D.D., minister, Hillhead, Glasgow
 Adam, John M., M.B., Port Bannatyne
 Adam, Robert H., M.A., M.B., Paisley
 Adam, Thomas, M.A., student, Cumbernauld
 Adam, Thomas B., M.D., Langside
 Adam, William, M.A., teacher, Glasgow
 Adam, William John, M.B., Hillhead, Glasgow
 Adam, William T., M.B., Workington
 Adams, James A., M.D., Glasgow
 Adams, John, M.A., B.Sc., teacher, Campbelltown
 Adams, J., M.A., B.D., prob., Holburn st., Aberdeen
 Adams, John, M.B., 8 Melrose street, Glasgow
 Adams, John E., M.A., tea., Gilbertfield, Hamilton
 Adams, William S., M.D., Jersey
 Adamson, James, M.D., Hutton-le-Hole
 Adamson, James, M.A., student, Kinloss
 Adamson, J. G., M.D., Lurgan, Armagh
 Adamson, W. F., M.A., minister, Galashiels
 Addie, John, M.A., minister, Perth
 Affleck, John, M.A., D.Sc., Ayr
 Agnew, Alex., M.A., tea., 2 Glasgow st., Hillhead
 Agnew, J. M., minister, Longhope, Orkney
 Aiken, James, M.A., writer, Dalnoak
 Aiken, J. B., M.A., writer, Dalnoak
 Aikman, Charles Brown, writer, Glasgow
 Aikman, Chas. M., M.A., B.Sc., chemist, Glasgow
 Aikman, John, M.D., Guernsey
 Aird, Alex. W., M.B., Galston
 Aird, Hugh, M.A., D.D., minister, Brechin
 Aitken, David, M.A., teacher, Paisley
 Aitken, James, M.B., 39 Gibson street, Hillhead
 Aitken, John, M.D., Govan
 Aitken, John, M.D., Buckhaven
 Aitken, P. H., M.A., B.Sc., B.D., min., London
 Aitken, R., B.L., writer, Edinburgh
 Aitken, Robert Easton, C.A., Glasgow
 Aitken, W. B., M.B., Carsehead, Dalry
 Aiton, Thomas, B.A., minister, Livingston
 Aiton, W., B.L., law agent, Glasgow
 Alexander, Andrew, M.A., surgeon, Berwick
 Alexander, Arch., M.A., min., Spittal, Berwick
 Alexander, A., B.D., minister, Langbank
 Alexander, Archibald S., M.D., Plymouth
 Alexander, David R., M.A., stu., Clarkfield, Partick
 Alexander, John, M.A., minister, Partick
 Alexander, John, M.A., student, Birkenhead
 Alexander, J. B., M.A., min., Hawaiian Islands
 Alexander, Peter, M.A., teacher, Glasgow
 Alexander, Robert, minister, Dunfermline
 Alexander, R., M.A., teacher, Glasgow
 Alexander, Samuel, M.D., Larkhall
 Alexander, Samuel P., M.D., Glasgow
 Alexander, T. G., M.B., Glasgow
 Alexander, Walter, M.A., student, Millerston
 Alexander, William, M.D., Dundonald
 Alexander, W. M., M.A., B.Sc., M.B., B.D., Millerst'n
 Alison, Sir A., Bart., LL.D., K.C.B., Lt.-gen., London
 Alison, Archibald, minister, Prestwick
 Alison, Arthur, advocate, Edinburgh
 Alison, George, minister, Kilbarchan
 Alison, John, M.A., minister, Edinburgh
 Alison, Samuel S., M.A., minister, Belfast
 Allan, Arthur, M.A., student, Manse, Fairlie
 Allan, G. F., M.A., LL.B., writer, Hillhead
 Allan, George R., B.A., M.D., Glasgow
 Allan, Henry, M.A., student, Glasgow
 Allan, James Paul, M.D., Renfrew
 Allan, James W., M.B., Belvidere Hosp., Glasgow
 Allan, John, minister, Ayr

- Allan, John, M.B., Alyth
 Allan, J., M.A., surveyor of taxes, Hamilton
 Allan, Robert, M.B., Ardrossan
 Allan, William, M.B., Langlands House, Govan
 Allan, William, M.A., student, Glasgow
 Allan, Wm., B.Sc., C.E., Elderslie ho., Strathaven
 Allan, W., M.B., Cramlington, Northumberland
 Allan, W. C., M.B., Montrose
 Allan, William C., M.A., student, Mininion, Barr
 Allardice, John, M.A., teacher, Lerwick
 Allen, Charles, M.A., minister, Convoy
 Allen, Robert A., M.D., Chatham
 Allen, William B., M.B., Glasgow
 Allen, William E. L., M.B., Higher Broughton
 Allison, Alexander, M.D., Loanhead
 Allison, James, minister, Alexandria
 Almond, Hely H., LL.D., Musselburgh
 Alpine, G., M.A., B.D., minister, Dumbarton
 Alston, Andrew, minister, Carluke
 Alston, And., M.A., law clerk, U.P. Manse, Carluke
 Alston, James M., M.D., Airdrie
 Anderson, A., M.A., minister, Carlisle
 Anderson, Alexander M., M.D., Dundee
 Anderson, A. R., M.A., teacher, Edinburgh
 Anderson, David, minister, Ceres, Fife
 Anderson, F., M.A., minister, Glasgow
 Anderson, F. F., M.A., minister, Whithorn
 Anderson, G., M.B., Stockton-on-Tees
 Anderson, George, minister, New Cumnock
 Anderson, G., M.A., B.D., minister, Bothkennar
 Anderson, Henry, minister, Partick
 Anderson, H., M.B., Billinge, Wigan
 Anderson, H. S., M.A., student, Kilmaurs
 Anderson, James, M.A., teacher, Annan
 Anderson, Jas., M.B., Poulton-le-Fylde, Lancashire
 Anderson, J. F., M.A., writer, Glasgow
 Anderson, James H., manufacturer, London
 Anderson, James Rae, M.D., Canonbie
 Anderson, James W., M.D., Glasgow
 Anderson, John, M.A., minister, Falkirk
 Anderson, J., B.D., minister, Kelvinside
 Anderson, John, M.D., London, S.E.
 Anderson, John A., M.D., Stranraer
 Anderson, J. B. M., M.A., M.B., Glasgow
 Anderson, J. W., M.A., M.B., Barrow-in-Furness
 Anderson, Jonathan, writer, Glasgow
 Anderson, M. S., M.A., M.B., Kilbirnie
 Anderson, Robert, M.B., Busby
 Anderson, Robert, D.D., minister, Glasgow
 Anderson, Robert, minister, Kilsyth
 Anderson, Robt. C., M.A., stud., New Kilpatrick
 Anderson, Robert H., manufacturer, London
 Anderson, R. S. G., M.A., B.D., prob., Ontario
 Anderson, Thomas A., writer, Glasgow
 Anderson, T. McCall, M.D., professor, Glasgow
 Anderson, William, M.A., LL.B., student, Glasgow
 Anderson, William, minister, Fettercairn
 Anderson, William, J.P., Edinburgh
 Anderson, William, minister, Boynzie, Banff
 Anderson, William, minister, Cults
 Anderson, W. H., M.B., Harleston, Suffolk
 Anderson, William S., M.D., Chapel-en-le-Frith
 Anderton, G. L., M.D., Douglas, Isle of Man
 Andrew, Alexander, M.A., student, Paisley
 Andrew, Alexander, minister, Glasgow
 Andrew, Jas. G., M.B., 6 Walmer cres., Glasgow
 Andrew, Robert, M.A., student, Paisley
 Andrew, R., M.A., B.D., minister, Glengarnock
 Andrew, W.S., M.A., student, Bo'ness
 Angus, Robert, missionary, Chryston
 Annan, Archibald J., B.L., writer, Glasgow
 Appleton, Henry, M.D., Staines, Middlesex
 Arbuckle, John H., M.D., Kilmarnock
 Armour, Andrew, M.D., Redhouse, Crook
 Armour, Matthew, minister, Sanday
 Armstrong, G. C., M.D., Blackrock, Dublin
 Armstrong, H., B.D., prob., London rd., Glasgow
 Armstrong, W. A. A., M.A., minister, Hastings
 Arnot, Thomas, writer, Glasgow
 Arnott, James, M.D., e/o King & Co., London
 Arnott, John, M.A., student, Peel, Kirkintilloch
 Arrol, C., M.D., Bankstown, Sheerness
 Arthur, Adam Niven, teacher, Dunoon
 Arthur, David, minister, Aberdeen
 Arthur, David, M.B., New Galloway
 Arthur, D. F., minister, Bauchory-Devenick
 Arthur, Hugh, M.B., Airdrie
 Arthur, James, minister, Springburn
 Arthur, James, M.A., teacher, Largs
 Arthur, John Findlay, M.D., New Cumnock
 Arthur, Patrick, M.D., Lambourne
 Arthur, W., M.D., Mirfield, Yorkshire
 Ashcroft, F., M.A., missionary, Kelvinside
 Ashurst, Fred., M.B., 43 Market st., Blackpool
 Aspin, And. H., M.A., clerk, 1 Crown ter., Downhill
 Atkinson, J. P., M.D., Saffron Walden
 Auld, A. G., M.D., 3 Lugar place, Kelvinside
 Auld, Archibald, M.B., Snaith, Yorks
 Auld, Charles, M.D., Kilwinning
 Auld, W., M.A., B.D., minister, Carnock
 Auld, William, M.B., Myrtle Park, Crosshill
 Austin, R., M.D., Ranelagh, Dublin
 Babbie, William, M.B., Dumbarton
 Badenoch, G. Roy, minister, Lee, Kent
 Bailey, William E., M.B., Stockport
 Bain, Archibald W., M.A., teacher, Smyrna
 Bain, James, minister, Glasgow
 Bain, James A., M.A., student, Glasgow
 Bain, Joseph, Record editor, London, S.W.
 Bain, Robert, M.A., student, Glasgow
 Bain, R. W. K., M.A., student, Aberdeen
 Bain, William, M.A., M.D., Patterdale
 Bainbrigge, W. P. Y., M.B., Droitwich
 Baird, And., M.A., B.D., asst. min., Shotts
 Baird, Hugh, minister, Cumbernauld
 Baird, John, M.A., B.D., minister, Helensburgh
 Baird, John, M.B., Hillhead, Glasgow
 Baird, John, M.B., Bonnybridge
 Baird, Robert, writer, London
 Baird, Samuel J., M.B., Londonderry
 Baird, William James, M.D., North Shields
 Baker, John C., M.D., Liverpool
 Balbirnie, John, M.A., M.D., Plumtree, Notts
 Balderston, J. C., minister, West Kilbride
 Balfour, David D., sheriff-substitute, Glasgow
 Ballantine, James, M.D., Catrine
 Ballantyne, James T., M.B., Over Darwen
 Ballantyne, William, minister, London
 Balloch, Robert, merchant, Glasgow
 Bamber, H., M.B., Artois Villa, Chatham
 Bamber, W. R., M.A., minister, Salford
 Bankhead, W. T., M.A., minister, North Shields
 Bankier, Alex. M., M.B., Crewe
 Bankier, G. S. H., M.D., Ashton-under-Lyne
 Bankier, P. M., M.A., student, Canada

- Banks, Alex., M.A., minister, Carnwath
 Banks, Chas., M.B., Priorcroft house, Paisley
 Banks, John, M.B., Dunoon
 Banks, Robert, M.B., Braehead, Carnwath
 Bannatyne, A., M.A., minister, Lochgilphead
 Bannatyne, D. J., writer, New Jersey
 Bannatyne, Gilbert A., M.B., Milnheugh, Blantyre
 Bannatyne, John, minister, Takaka, N.Z.
 Bannatyne, Mark, writer, Glasgow
 Bannerman, C., M.A., student, Langside
 Bannerman, G. G., M.B., Hawick
 Barber, Wm., M.A., of Terran, Moniaive
 Barbour, James M., M.B., London
 Barbour, John B., M.B., Fever Hospital, London
 Barclay, Arthur, M.B., Netley
 Barclay, James, M.A., LL.B., Glasgow
 Barclay, James, M.A., minister, Edinburgh
 Barclay, J. M.A., D.D., minister, Toronto
 Barclay, Robt. D., B.Sc., mech. eng., 51 Cecil st., Hillhead
 Barclay, Robt. F., M.A., stud., 21 Park ter., Glasgow
 Barclay, Thomas, M.A., minister, Glasgow
 Barclay, T., M.A., advocate, Edinburgh
 Barker, Alex. E., LL.B., barrister, London
 Barker, H. M., LL.D., teacher, Glasgow
 Barlas, Alex. R., M.A., Loc. Gov. Board, Dublin
 Barnett, John, minister, Kilchoman
 Barnett, J., M.A., minister, Moneymore
 Barnhill, James, M.A., Glasgow
 Barr, Alexander, minister, Airdrie
 Barr, A., D.Sc., C.E., professor, Glasgow
 Barr, H., B.L., writer, 45 W. George st., Glasgow
 Barr, James, preacher, Maryhill
 Barr, James, M.D., Everton, Liverpool
 Barr, James, M.A., minister, Wamphray
 Barr, James B., M.B., Port-Glasgow
 Barr, Jas. K., M.A., tea., 113G. Hamiltonst., Glasgow
 Barr, John, surgeon, Rishton
 Barr, John F., B.Sc., stud., Coldstream ho., P'shields
 Barr, Patrick, B.L., writer, Glasgow
 Barr, Thomas, M.D., Glasgow
 Barras, Thomas C., M.B., 5 Westercraigs, Glasgow
 Barras, William, minister, Glasgow
 Barras, Wm. G., M.B., 4 Osborne terrace, Govan
 Barrie, John, M.D., Crosshill, Glasgow
 Barrie, Wm. R., minister, Longframlington
 Barrowman, Jas. S., M.A., stu., 79 Park rd., Glas.
 Barry, J. C., M.A., clergyman, Dumbarton
 Bathgate, W., M.A., H.M.I.S., Glasgow
 Battersby, John George, M.D., Lismore
 Bauchop, Jas., M.B., 131 Annfield st., Dennistoun
 Baxter, Colin, M.B., Bannockburn
 Baxter, John C., D.D., minister, Kirkcaldy
 Bayne, Alexander, minister, Tingwall
 Baynes, Joseph, M.B., Manchester
 Beatson, H., minister, Hillhead, Glasgow
 Beatson, John F., M.D., 65 Cornhill, London
 Beattie, Matthew, M.B., Newton, Auldgrith
 Beattie, Robert M., M.B., Inveraray
 Beck, John Wood, M.D., Belfast
 Beckett, Alex., M.D., Moneymore
 Beckett, C. E., LL.B., 163 St. Vincent st., Glas.
 Beckett, John, M.D., Crosshill, Glasgow
 Beckett, William, M.A., writer, Glasgow
 Begg, Bruce B., M.A., minister, Kirkcaldy
 Begg, Robert, M.A., student, Glasgow
 Beggs, John, M.D., Reedsmouth
 Beith, Alexander, D.D., minister, Edinburgh
 Beith, Robert, M.B., Glasgow
 Bell, Andrew B., advocate, Edinburgh
 Bell, Andrew L., M.B., Dunfermline
 Bell, Charles, M.D., Edinburgh
 Bell, Charles W., M.B., Glasgow
 Bell, David, M.D., Goole, Yorkshire
 Bell, Henry W., M.A., minister, Aberdeen
 Bell, George T., student, Kirn
 Bell, Robert, M.D., Glasgow
 Bell, Thomas, minister, Edinburgh
 Bell, Thos. K., M.B., Coatbridge
 Bell, William, M.D., Preston
 Bell, William, M.A., M.D., Garstang
 Bell, Wm. H., M.A., teacher, Main st., Rutherglen
 Bennett, A. J. M., M.A., writer, Dunoon
 Bennett, Samuel, M.D., Bruff, Limerick
 Bennie, James, M.D., Glasgow
 Bennie, J. N., LL.D., clergyman, Leicester
 Bennie, Robert, M.A., minister, Greenock
 Bennie, William, minister, Bathgate
 Beresford, R. de la Poer, M.D., Oswestry
 Berry, H. L., M.A., minister, Hampstead
 Berry, James, minister, Buchlyvie
 Berry, R., M.A., LL.D., Sheriff of L'kshire, Glas.
 Bertram, Thos. D., M.B., Freeland Bank, Partick
 Bethune, John, minister, Portmook, Kinross
 Beveridge, H. R., M.A., student, Paisley
 Beveridge, John, M.A., B.D., minister, Stow
 Beveridge, J., M.B., Kilmarnock
 Beveridge, R. E., M.B., Dunfermline
 Biernacki, John T., M.B., 12 Roylea ter., Kelvinside
 Biggar, David, M.D., Portadown
 Biggar, J. W., M.A., teacher, Polmont
 Biggart, Samuel, M.D., West Hartlepool
 Biggs, Solomon R., M.D., Seacombe
 Binnie, David D., LL.B., writer, Glasgow
 Binnie, R. M. G., M.D., Brandon, Durham
 Binnie, Thos., M.A., stu., 3 Park Gate, Glasgow
 Binnie, William, M.A., student, Airdrie
 Birchall, Thomas B., M.B., Croydon
 Birkmire, Archibald, minister, Glasgow
 Bishop, J. C., LL.B., student, Coatbridge
 Bisset, D., M.A., teacher, 19 Elgin ter., Partick
 Black, Andrew, minister, Cambridge
 Black, Christopher S., M.D., Belfast
 Black, Donald Campbell, M.D., Glasgow
 Black, George, M.B., Luing, Easdale
 Black, H., M.A., stu., 38 Columhill st., Rothesay
 Black, James, M.A., minister, Stockport
 Black, J. M., M.A., advocate, Edinburgh
 Black, John, minister, New Castleton
 Black, Malcolm, M.D., Glasgow
 Black, Robert, M.A., minister, Cambridge
 Black, W. P. M., B.L., writer, Kelvinside
 Blackburn, H., M.A., ex-professor., Roshven
 Blackburn, Thos. L., M.B., Burnley, Lancashire
 Blackie, W. G., LL.D., publisher, Glasgow
 Blackie, W. W., B.Sc., publisher, Glasgow
 Blacklock, Alex. D., LL.B., law stud., Baillieston
 Blacklock, D.C.S., M.A., 48 W'bourne Gar., K'side
 Blackwood, T., M.A., student, Lesmahagow
 Blaine, B., M.B., Glasgow, W.
 Blair, Alexander, M.B., Ashington, Morpeth
 Blair, Archibald W., LL.B., student, Glasgow
 Blair, Charles P., M.A., minister, Wanlockhead
 Blair, David, M.D., Benvan, Glencoe
 Blair, James, M.A., student, Sharon street, Dalry
 Blair, John, minister, Straiton, Maybole

- Blair, John F., B.D., prob., 573 Duke st., Glas.
 Blair, Matthew, M.B., 19 Oakshaw street, Paisley
 Blair, R., M.A., minister, Cambuslang
 Blair, Robert, M.D., Lenzie
 Blair, William, M.D., Jedburgh
 Blake, B., B.D., minister, Clydebank
 Blakely, W. T., M.B., Kirkintilloch
 Bland, Matthew H., M.B., Kirkcaldy, Redcar
 Bleckley, John, M.A., minister, Monaghan
 Blelloch, Archibald, minister, Edinburgh
 Blyth, David, M.B., Johnstone Br., Lockerbie
 Blyth, James, M.A., minister, Alnwick
 Blyth, John, B.L., solicitor, Edinburgh
 Blyth, J. G., LL.B., barrister, Auckland, N.Z.
 Boa, John F., M.B., Dippin, Kildonan, Arran
 Boag, John S., M.A., B.Sc., student, Greenock
 Bogle, Andrew, minister, Callander
 Bogue, J., M.A., minister, Stockton-on-Tees
 Bolland, Edward H., M.D., Monkstown, Dublin
 Bonar, J., M.A., LL.D., C. S. Examiner, London
 Bonar, John, M.A., student, East Kilbride
 Bonar, Thomas M., M.B., Fishponds, Gloucester
 Bond, John, M.B., Liverpool
 Bond, William James, M.B., Brill, Bucks
 Booth, John, M.B., Oswaldtwistle
 Borland, David, M.A., minister, Neilston
 Borland, John, M.B., Glasgow
 Borland, John, M.D., Kilmarnock
 Bossy, Francis, M.D., Redhill, Surrey
 Bowie, James, minister, Craig, Dunscore
 Bowie, John C., M.B., Kilbarchan
 Bowie, Thomas, M.B., Coatbridge
 Bowman, Archibald, minister, Glasgow
 Boxwell, Henry H., M.D., Wexford
 Boyd, A., major, St. Andrews
 Boyd, A. K. H., D.D., minister, St. Andrews
 Boyd, J. D., M.B., Sandhurst, Australia
 Boyd, J., M.A., principal, Broughton, Manchester
 Boyd, James, writer, Glasgow
 Boyd, James, M.A., minister, York
 Boyd, J. C., M.A., minister, Kenmoway
 Boyd, James P., M.B., 6 Park street, E., Glasgow
 Boyd, J., M.A., minister, Wemyss Bay
 Boyd, Robert, B.L., solicitor, Irvine
 Boyd, Robert M., M.A., minister, Glenbervie
 Boyd, William, LL.D., minister, Glasgow
 Boyle, John, M.A., stud., Farnell, Brechin
 Boyle, Michael A., M.B., Belmullatt, co. Mayo
 Bradford, William A., M.B., Chippenham
 Bradley, M.M., M.D., Jarrold-on-Tyne
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 Waddell, W. W., M.A., insp'r. of schools, Stirling
 Waddington, Isaac, M.D., Bradford
 Wade, George, minister, Falkirk
 Wakefield, Wm., M.D., London
 Wainwright, Chas. Wm., B.L., stu., Elderslie
 Wainwright, J. W., M.D., St. Leonards-on-Sea
 Walker, Alex., M.A., minister, Millport
 Walker, Alex., M.A., minister, Deskford
 Walker, Alex. O., B.L., l.-cl., 256 Renfrew st., Glas.
 Walker, Allan, M.B., Seaton Burn
 Walker, A. F., M.B., Hawthorn cot., Newmains
 Walker, Archibald, minister, Row
 Walker, David, M.A., min., Newton ter., Glasgow
 Walker, George, M.D., Birkenhead
 Walker, H., M.A., stu., Kirkland villa, Po'ksh'ws
 Walker, Hugh, M.A., student, Kilbirnie
 Walker, James, preacher, Glasgow
 Walker, J. C., M.A., probationer, Rothesay
 Walker, P. H., M.B., Prestwick
 Walker, Robert, M.D., Portobello
 Walker, R., M.A., B.D., minister, Skelmorlie
 Walker, Thomas, minister, Dalry, Galloway
 Walker, Wm., M.D., Pollokshaws
 Walker, Wm., M.B., 3 Minerva st., Glasgow
 Walker, Wm., probationer, Greenock
 Walker, W. R., M.A., stu., 296 Bath st., Glasgow
 Walker, W. Taylor, M.A., minister, Oban
 Wall, Thomas, M.D., Cork
 Wallace, Alex., D.D., minister, Glasgow
 Wallace, Alex., M.B., Baillieston
 Wallace, David, M.A., teacher, Paisley
 Wallace, E. J., M.D., S. Sea, Hants
 Wallace, James, M.D., Greenock
 Wallace, J. S., B.Sc., stu., Westfield ho., Sh'lands
 Wallace, Jas. W., M.B., 108 Hospital st., Glasgow
 Wallace, J., M.A., minister, Redcar
 Wallace, Jardine, minister, Traquair
 Wallace, Joseph B., M.B., Victoria villa, Cathcart
 Wallace, Robert, M.B., Govanhill
 Wallace, R. W., M.A., student, Abernethy
 Wallace, Samuel, M.D., Cardiff
 Wallace, William, M.A., M.B., Shawlands
 Wallace, W., M.D., Castleford, Yorks
 Wallace, W., M.A., teacher, Bloomfield, Dalnmuir
 Wallace, William, M.D., Greenock
 Wallace, William, M.B., Innellan
 Wallace, William, M.A., law student, Hillhead
 Wallis, Patrick, M.D., Charleville
 Walsh, Arthur D., M.D., Cloughjordan
 Walsh, John, M.D., Liverpool
 Walton, T. U., B.Sc., C.E., Greenock
 Wands, James, M.B., Chester-le-Street, Durham
 Warden, A. A., M.A., stu., 8 Windsor ter., Glas.
 Wardrop, D., M.A., teacher, Greenock
 Wark, David, minister, Auchincairn
 Wark, James R., M.A., 254 Saracen st., Possilpark
 Warner, Robert, M.A., writer, Glasgow
 Watanabe, Kaichi, B.Sc., C.E., Tokyo
 Waters, John H., M.D., London, S.W.
 Watson, A. C., M.A., B.D., minister, Renton
 Watson, Alex. L., M.A., student, Ayr
 Watson, David, M.A., minister, Clough
 Watson, David, M.A., stu., 20 High st., Lanark
 Watson, H. J., B.Sc., stu., 8 Victoria cres., Dowanb'l
 Watson, J., M.A., tea., Watsonville cot., Motherw'l
 Watson, James, B.L., solicitor, Glasgow
 Watson, James, M.B., sick chil. hosp., Glasgow
 Watson, James R., M.A., student, Parkhead
 Watson, John, M.A., minister, South Yell
 Watson, Robert, M.D., Glasgow
 Watson, Thomas, writer, Glasgow
 Watson, Thomas, M.D., Stockton-on-Tees
 Watson, Thos., M.A., stud., 4 Park av., Dundee
 Watson, William, M.A., minister, Dumbarton
 Watson, William, M.B., Manchester
 Watson, Wm. R. K., M.A., M.B., Birmingham
 Watt, Alex., M.B., Stewarton
 Watt, Allan, M.B., Strathaven
 Wilson, John, M.D., Brookborough
 Wilson, John N., M.B., Jarrow-on-Tyne

- Watt, D. G., M.A., minister, London, N.
 Watt, Dugald C., M.B., Ferryhill, co. Durham
 Watt, Henry, M.A., student, Wennetta, Govan
 Watt, H. G., M.A., B.D., minister, Dundee
 Watt, James R., M.B., Ayr
 Watt, J. C., M.A., Fellow, Cambridge
 Watt, Thomas, M.A., M.B., Paisley
 Watt, Wellstood A., LL.B., student, Hamilton
 Watt, Wm., minister, Norriston, Thornhill, Stirling
 Watt, William M., minister, Shotts
 Waugh, Thomas, M.D., Stewartstown
 Weatherhead, James, M.A., B.D., prob., Moffat
 Webb, Henry P., M.B., Clapham, S.W.
 Webber, G.W., B.Sc., chem., Oswald Hill, Partick
 Weild, A., minister, Thornliebank
 Weir, James B., M.D., Silverstone
 Weir, J. J., M.B., St. John's ter., Jar'w-on-Tyne
 Weir, John, minister, Kilmaurs
 Weir, John, M.A., assist. to Prof., Kilmaurs
 Weir, John, M.A., minister, Forfar
 Weir, John W., M.D., Tembuland, South Africa
 Weir, John, M.D., Carrickfergus
 Weir, John Craig, minister, Jarrow-on-Tyne
 Weir, Robt., M.B., Dell road, Campbeltown
 Weir, Thos. D., B.Sc., C.E., Venezuela, S. America
 Weir, T. H., B.D., probationer, Kingairloch
 Weir, Wm., B.Sc., student, Kilmaurs
 Weldon, R. G., M.A., Hon. Canon, Rothesay
 Wells, G. H., M.A., minister, Gorton
 Wells, J. H., minister, Bridge of Earn
 Welsh, Alexander, M.D., Whitworth
 Welsh, John, M.D., Ballyshannon
 Welsh, Robert, M.A., Harrogate
 Wemyss, John, M.A., student, Helensburgh
 Wenley, Robt. M., M.A., student, Downhill
 West, Duncan M., Hillside, Pollokshaws
 West, John Henry, M.D., 59 Brigade Depot
 Westropp, William, M.D., Limerick
 Whammond, W., M.D., Jarrow-on-Tyne
 Wherland, James R., M.D., Cork
 Whish, Charles, M.B., Pollokshaws
 White, Adam, advocate, Glasgow
 White, James W., M.D., Uddingston
 White, John, M.A., student, Whiteinch
 White, John, M.A., minister, Glasgow
 White, John, M.B., Pollokshields
 White, J. C., M.A., mer., Crosslet, Dumbarton
 White, M., M.A., minister, Blairgowrie
 White, M., M.A., B.D., minister, Skirling
 White, R., M.A., probationer, Maxwelltown
 White, Walter, minister, Errol
 White, William, M.D., Borriescastle
 White, Wm., B.D., 4 Hawarden ter., Partick
 Whiteford, A., M.A., Neilston
 Whiteford, J., M.A., minister, Bonnybridge
 Whitehead, Alex., M.B., Paisley
 Whitelaw, Robert, M.B., Caleutta
 Whitelaw, Wm., M.D., Kirkintilloch
 Whitson, James, M.D., Glasgow
 Whittaker, Jas. T., M.D., Tillicoultry
 Whyte, A., M.A., minister, Claekmannan
 Whyte, Alex., M.A., B.Sc., B.D., prob., Busby
 Whyte, D., M.A., minister, Baun, Downpatrick
 Whyte, H. L., sec., Workington
 Whyte, James, M.A., stu., 28 M'Lean st., Glasgow
 Whyte, J. B., minister, Hartlepool
 Whyte, R., M.A., minister, Edinburgh
 Whyte, R. H., minister, Lockerbie
 Whyte, William, B.Sc., Aberdeen
 Wight, G., M.A., minister, Wamphray
 Wight, William T., B.L., student, Wislaw
 Wildridge, Charles M., M.B., Bo'ness
 Wilkie, J. M., Liscard, Cheshire
 Williams, Alfred, M.B., Huddersfield
 Williams, B. T., M.A., Q.C., Narberth, Pemb'shire
 Williams, E., M.A., B.D., minister, Swansea
 Williams, Ed., M.B., 1 Splott rd., Cardiff
 Williams, George, M.D., Dingle, co. Derry
 Williams, Leonard, M.B., E. Sheen, London, S.W.
 Williamson, D., minister, Forgandenny
 Williamson, James, minister, Edinburgh
 Williamson, James F., property agent, Glasgow
 Williamson, R., D.D., min., Kingarth, Rothesay
 Williamson, R.P.G., M.A., te., Greenfield pl., Alloa
 Williamson, Walter, writer, Beith
 Williamson, William J., M.A., Derry
 Williamson, W. M., M.A., st., Kirkmuirbill, Lesmah.
 Willis, George, M.D., Monmouth
 Willis, Randolph O., M.B., Oak ho., Monmouth
 Willis, William R., M.B., Baillieston
 Willison, John, writer, Glasgow
 Wills, James, M.B., London, N.
 Wilson, A., M.A., B.D., probationer, Drymen
 Wilson, Adam J., M.A., student, Glasgow
 Wilson, Andrew, M.B., 1 Lendel ter., Glasgow
 Wilson, Alexander, minister, Glasgow
 Wilson, A. S., M.A., B.Sc., min., N. Queensferry
 Wilson, Allan, M.D., Alnwick
 Wilson, Andrew, M.D., Newton Disley
 Wilson, Charles, M.D., Crewe
 Wilson, D., minister, Borrowstownness
 Wilson, D., M.A., Carbeth, Killearn
 Wilson, David, M.A., student, Glasgow
 Wilson, David, M.B., Birtley
 Wilson, David, M.D., Huddersfield
 Wilson, George, M.B., Stane, Shotts
 Wilson, G., M.B., Ashton-under-Lyne
 Wilson, Henry, M.A., student, Glasgow
 Wilson, Henry B., M.B., Glasgow
 Wilson, Hugh, M.D., Ochiltree
 Wilson, Hugh C., M.A., minister, Eastbourne
 Wilson, James, minister, Perth
 Wilson, James, minister, Dundee
 Wilson, James L., M.B., Duns, Berwickshire
 Wilson, J., M.A., minister, Broughty-Ferry
 Wilson, James, M.A., student, Dennistoun
 Wilson, James, M.B., Johnstone
 Wilson, James, M.A., M.B., Govan
 Wilson, James, M.A., student, Port-Glasgow
 Wilson, James, A., M.D., Springburn
 Wilson, James M., M.D., Doncaster
 Wilson, James H., teacher, Cupar-Fife
 Wilson, James P., M.B., Infirmary, Dumfries
 Wilson, James S., M.B., Cumnock
 Wilson, John, minister, Aberdeen
 Wilson, J., M.A., minister, Abernethy
 Wilson, J., M.A., minister, Methven
 Wilson, John, M.D., Glasgow
 Wilson, John, M.D., Lancheater
 Wilson, John, M.B., Glasgow
 Wilson, John, M.A., teacher, Glasgow
 Wilson, John C., M.B., Blantyre
 Wilson, J. G., M.D., Ashton-under-Lyne
 Wilson, James S., M.D., Wallsall
 Wilson, John, M.A., student, Tillicoultry
 Wilson, John, minister, Bellshill

- Wilson, John R., M.A., minister, Hawick
 Wilson, J., M.A., s'master, Leatherhead, Surrey
 Wilson, Matthew, M.A., stu., Broomhouse, Glas.
 Wilson, Matthew, M.A., Johnstone
 Wilson, Matthew G., M.A., student, Glasgow
 Wilson, P., M.A., minister, Leith
 Wilson, Robert, surgeon, Coatbridge
 Wilson, R., M.A., minister, North Ronaldshay
 Wilson, Robert, M.B., 38 Monteith row, Glasgow
 Wilson, R. A., M.D., Hornby, Lancaster
 Wilson, Stewart, M.D., Omagh
 Wilson, T., M.A., minister, Lesmahagow
 Wilson, Thos. H., M.A., teach., 591 Duke st., Glas.
 Wilson, Thos. L., minister, Longside, Aberdeen
 Wilson, T. R., M.A., teacher, Inverness
 Wilson, William, M.A., student, Bothwell
 Wilson, William, M.D., Irvine
 Wilson, W. B., preacher, Bellshill
 Wilson, William A., M.D., Greenock
 Wilson, William W., M.A., minister, Auchnagatt
 Wilson, Wm. M., M.B., Mavisbank, Airdrie
 Wilson, William M'K., M.B., Glasgow
 Wingate, Donald, M.B., Haswell, Durham
 Wingate, Walter, M.A., student, Glasgow
 Wingate, Wm., minister, Bayswater
 Winn, James M., M.D., London, N.W.
 Winning, W., M.A., student, Partick
 Wishart, Robert, minister, Thornhill
 Wishart, R. S., M.A., teacher, Chryston
 Wood, Percival J., M.A., teacher, Burton Stather
 Woodburn, James C., M.D., Glasgow
 Woolgates, Samuel H., M.D., Exeter
 Woods, Thomas, M.D., Parsonstown
 Woodside, David, B.D., minister, Glasgow
 Wooley, Samuel P., M.B., Bradford
 Woolfe, John, Reissberg, M.D., Glasgow
 Wotherspoon, A. S., M.B., Schoolhouse, Stonehouse
 Wotherspoon, John, M.B., Shawell, Rugby
 Wotherspoon, W. L., minister, Kilspindie
 Wray, William, M.A., minister, Cookstown
 Wright, Alexander, M.A., minister, Musselburgh
 Wright, D., M.A., minister, Bellahouston
 Wright, Hugh, solicitor, Edinburgh
 Wright, John, M.B., Eskbank, Dalkeith
 Wright, John C., M.B., Glasgow
 Wright, John S., M.B., Glasgow
 Wright, Peter, minister, Forfar
 Wright, Thos., M.A., stu., Houston sq., Johnstone
 Wright, William, minister, Lochec
 Wyer, Otho F., M.D., Leamington
 Wylie, A. Howie, M.D., Oldham
 Wylie, A., M.A., min., 11 Luton pl., Edinburgh
 Wylie, Alexander, W.S., Edinburgh
 Wylie, Alex., M.B., Croxall Grange, Lichfield
 Wylie, James, M.B., 64 Kelvingrove st., Glasgow
 Wylie, James A., M.A., student, Hamilton
 Wylie, John, M.B., Dalnair
 Wylie, John, M.B., Stewarton
 Wylie, Rich. J., M.B., 1 The College, Glasgow
 Wylie, W., M.A., teacher, Rutherglen
 Wylie, Wm.S., B.L., law cl., 160 W. George st., Glas.
 Wyllie, John, M.D., 262 Beverley road, Hull
 Wyllie, William, M.D., Kirby, Lonsdale
 Wyllie, William, M.A., minister, Eyemouth
 Yair, David W., minister, Firth, Orkney
 Yair, John M., M.B., Kilcreggan
 Yair, Joseph, M.A., minister, Eckford
 Yarrow, Henry, M.B., Glasgow
 Yeaman, George, M.D., Glasgow
 Yeo, Gerald, M.D., Harling, Petersfield
 York, William, writer, Glasgow
 Young, Alexander, writer, Glasgow
 Young, Alexander, minister, Glasgow
 Young, A. A., M.A., stu., 11 Gt. Western ter., Glas.
 Young, Archibald, M.A., minister, Aberdeen
 Young, Daniel L., M.A., clerk, Glasgow
 Young, David, M.D., Glasgow
 Young, David, D.D., minister, Bridge of Allan
 Young, David, M.B., Partick
 Young, E. D., M.A., W.S., Edinburgh
 Young, George B., B.L., student, Falkirk
 Young, Homer, M.A., student, Partick
 Young, J., M.A., tea., South Schoolhouse, Biggar
 Young, James, M.B., Viewfield house, Stewarton
 Young, James, minister, Tighnabruaich
 Young, J., M.A., minister, Paisley
 Young, James W., writer, Kilsyth
 Young, J., M.D., professor, Glasgow
 Young, J., M.B., Earliston
 Young, John, M.D., Sheffield
 Young, John, minister, Greenock
 Young, J., M.A., B.Sc., secy. to Tech. Coll., Glas
 Young, John, M.B., Glasgow
 Young, J. M., M.B., 149 Beverley rd., Hull
 Young, John M., M.A., M.B., Glasgow
 Young, R. Arthur, M.A., LL.B., stud., Glasgow
 Young, R. B., M.A., M.B., Dowanhill
 Young, Robert H., M.B., Glasgow
 Young, Robert, M.A., student, Paisley
 Young, Robert R., M.B., 2 Melbourne st., Leicester
 Young, R. T., M.A., student, Bridge of Allan
 Young, Thomas, M.D., Manchester
 Young, Thomas C., M.A., LL.B., writer, Glasgow
 Young, William, M.A., minister, Baldernock
 Young, William G., M.D., Glasgow
 Young, W., minister, Barrhead
 Young, William M., M.A., M.B., Glasgow
 Younger, Arch. S., B.Sc., eng., 6 Park ter., Govan
 Younger, Henry J., M.A., M.B., Greenock
 Younger, R. T., LL.B., advocate, Edinburgh
 Yuille, James, minister, Peterhead
 Zinkeisen, William, B.Sc., student, Glasgow
 Zuill, John, M.A., student, Buchlyvie
 Zuill, Robert, M.B., Buchlyvie

APPENDIX II.

UNIVERSITY OF GLASGOW LOCAL
EXAMINATIONS.

BOARD OF MANAGEMENT.

Vice-Chancellor and Principal JOHN CAIRD, D.D., *President*.

Professor DICKSON.

Professor FERGUSON.

„ RAMSAY.

„ M'KENDRICK.

„ VEITCH.

„ CLELAND.

„ E. CAIRD.

„ JACK.

„ YOUNG.

„ LINDSAY, F.C. College.

„ STEWART.

Professor STEWART, *Honorary Secretary*.

JAMES COURTTS, M.A., *Secretary*.

EXAMINERS.

David S. Adam, M.A. ; Patrick H. Aitken, M.A., B.Sc., B.D. ; James Bonar, LL.D. ; James T. Bottomley, M.A., F.R.S. ; Professor Bower, D.Sc. ; Professor Bradley, M.A. ; James Brown, M.A. ; Professor E. Caird, LL.D. ; James Cappon, M.A. ; Professor Cleland, M.D. ; John A. Cramb, M.A. ; Professor Dickson, D.D. ; Professor Dobbie, D.Sc. ; J. M. Dodds, M.A. ; John Dougall, M.A. ; Professor Ferguson, M.A., LL.D. ; G. Fiedler, Ph.D. ; J. H. Fullarton, M.A., D.Sc. ; George Gibson, M.A. ; Professor Grant, LL.D. ; R. Greenlees ; G. G. Henderson, M.A., D.Sc. ; W. R. Herkless, M.A., LL.B. ; Professor Jack, LL.D. ; Professor Jones, M.A. ; Rev. T. B. Kilpatrick, B.D. ; Gavin Lambie, M.A. ; Professor Lindsay, D.D. ; Professor Moriarty, M.A. ; James Morison ; J. H. Muirhead, B.A. ; Alex. Murdoch ; James A. McCallum, M.A. ; W. S. McCormick, M.A. ; Professor M'Kendrick, M.D., F.R.S. ; John S. M'Kenzie, M.A. ; Archibald M'Laren, M.A. ; Magnus M'Lean, M.A. ; Professor Murray, B.A. ; Professor Nichol, LL.D. ; Rev. W. Patrick, B.D. ; R. H. Pinkerton, M.A. ; Professor Ramsay,

LL.D.; Professor Robertson, D.D.; J. M. Robertson, M.A., M.B.; W. Smart, M.A.; Montague Smith; Professor Stewart, D.D.; Professor Story, D.D.; Professor Sir W. Thomson, LL.D.; Professor Veitch, LL.D.; R. M. Wenley, M.A.; J. Muir Wood; Professor Young, M.D.

The Board may add to the number of Examiners before the date fixed for the next Examination.

LOCAL CENTRES AND SECRETARIES, 1890.

<i>Bowmore,</i>	...	...	Rev. J. M'Gilechrist.
<i>Dumbarton,</i>	...	...	Henry Procter, Esq.
<i>Girvan,</i>	...	...	P. F. Mackenna, LL.B.
<i>Greenock,</i>	...	...	M. F. Dunlop, Esq., Writer.
<i>Hamilton,</i>	...	...	James Loudon, Esq., M.D.
<i>Helensburgh,</i>	...	...	Rev. John Baird, B.D.
<i>Kilmarnock,</i>	...	...	J. P. Stevenson, Esq., Solicitor.
<i>Largs,</i>	...	...	J. K. Boyd, Esq.
<i>Lenzie,</i>	...	...
<i>Paisley,</i>	...	...	J. E. Campbell, M.A., B.L.
<i>Rothsay,</i>	...	...	Arch. M'Kirdy, Esq.
<i>Strathpeffer,</i>	...	...	Rev. C. S. Findlay.
<i>Whitehaven,</i>	...	...	Rev. Alex. Nairn.

REGULATIONS FOR 1891.

The Examinations for 1891 will be held on the 2nd, 3rd, 4th, and 5th June. Both boys and girls are admitted, but boys are not admitted above the age of 18.

Enrolment forms may be obtained from the Secretary at the University, in the month of April. Candidates must fill up and return these forms *on or before the 1st May*, forwarding the fees at the same time. Unless by special permission, candidates will not be admitted to enrolment after 1st May.

PLACES OF EXAMINATION.—Candidates will be examined at the University, Glasgow, and at such places as the Board may appoint as Local Centres. The Board undertake to establish a Local Centre in any place (excepting the other University seats, St. Andrews, Aberdeen, and Edinburgh), upon the following conditions:—1. A Local Committee of those interested in the higher education of the district must be formed, and must make the local arrangements required for the proper conducting of the Examination. 2. In order that any place may be recognised as a Local Centre, fees to the amount of at least £5 must be contributed by or on behalf of the candidates enrolling for examination at such place. 3. Any expenses incident to the Examination at each Local Centre (but not including fees to Examiners) must be borne by the Local Committee.

The Secretary of the Local Committee will receive from the candidates

belonging to the district their forms of application, duly filled up, and their fees, and will transmit them *not later than 2nd May* to the Secretary of the Board at the University.

CERTIFICATES.—The Certificates granted by the Board are as follows, viz. :—

- | | |
|-------------------------------------|----------------------------|
| I. Junior, | } for both boys and girls. |
| II. Senior, | |
| III. Higher, | } for women. |
| IV. Certificate in Degree Subjects, | |

They are signed by the Vice-Chancellor of the University, and specify in each case the subjects in which the candidate has passed.

The following privileges are attached to the Certificates granted by the Board :—1. Students under 17 years of age proposing to enter the Faculty of Arts in the University are required to pass an Entrance Examination, but the holders of Junior or Senior Certificates are exempted from examination in the subjects comprised in their certificates. 2. Students proposing to enter on the study of medicine in this University or other Medical School are required to pass a Preliminary Examination in General Education, but the holders of Junior or Senior Certificates are exempted from examination in the subjects comprised in their Certificates. 3. Students holding a Senior Certificate bearing that the holder has passed with not less than 60 per cent. of the marks attainable in Latin, Greek, or Mathematics, are qualified to attend, in any of the Scottish Universities, the Higher Classes in the subject or subjects passed, without having previously attended the Junior Classes in the same department, and provided such students have passed with the required percentage in Latin and Greek, they may complete the curriculum for a Degree in Arts in three Sessions. 4. The Senior Certificate—provided that it comprises one or more of the following subjects, viz., Latin, Greek, French, German—is accepted as qualifying for admission to Girton College, Cambridge. 5. Females holding the Senior Certificate, or the Higher Certificate, or the Certificate in Degree Subjects, may act as assistant teachers under Art. 79 of the Scotch Code of the Education Department, and under Art. 47 *b.* 2 may obtain Government Certificates after twelve months' service in a day school receiving Government Grants. It may also be mentioned that Candidates who have passed in the Common Subjects are exempted by the Glasgow School Board from the examinations prescribed for intending pupil-teachers in their schools.

The subjects of Examination, proficiency in which gives a right to a Certificate, are divided into five groups :—

- (a) Common Subjects.
- (b) Special Subjects for the Junior Certificate.
- (c) Special Subjects for the Senior Certificate.
- (d) Special Subjects for the Higher Certificate.
- (e) Subjects for Certificate in Degree Subjects.

Candidates for the Junior Certificate must pass in all the subjects of Group (a), and in a selection from Group (b); for the Senior in all the subjects of Group (a), and in a selection from Group (c); for the Higher in a selection from Group (d); and for the Certificate in Degree Subjects in a selection from Group (e). The selection must in each case be made in accordance with the conditions laid down in the regulations.

Candidates for the Junior or Senior Certificate may take the Common and the Special Subjects in different years. The names of those who pass in the Common Subjects are registered, but no Certificate is issued till the Candidates have also passed in the Special Subjects.

Candidates for Junior, Senior, or Higher Certificates may also present themselves for Examination in Drawing and Music, and their proficiency in these EXTRA SUBJECTS will be recorded in the Certificate, but the numerical values obtained will not be reckoned in any Competition.

The Time Tables should be consulted by Candidates in selecting their lines of study, so as to avoid, as far as possible, the inconvenience to themselves consequent upon choosing subjects arranged for consecutive hours.

Group (a) comprehends:—1. English; 2. History; 3. Geography; 4. Arithmetic; 5. Scripture History; 6. Latin. [N.B.—Girls are not required to take Latin.]

The subjects in Group (b) are arranged in four departments, and the subjects (in number at least *three*, and not more than *four*) selected by any candidate must be taken from at least two of the departments. Department A comprehends—1. English Composition and English Literature; 2. History and Geography; 3. Scripture. Department B—1. Latin; 2. Greek; 3. French; 4. German. Department C—1. Mathematics; 2. Natural Philosophy; 3. Astronomy. Department D—1. Chemistry; 2. Botany; 3. Zoology; 4. Physiology; 5. Geology and Physiography. From Department D not more than one subject may be taken.

The subjects in Group (c) are also arranged in four departments, and the subjects (in number at least *three*, and not more than *five*) selected by any candidate must be taken from at least two of the departments. Department E comprehends—1. English Literature; 2. History; 3. Political Economy; 4. Logic; 5. Scripture. Department F—1. Latin; 2. Greek; 3. French; 4. German. Department G—1. Mathematics; 2. Natural Philosophy; 3. Astronomy. Department H—1. Chemistry; 2. Botany; 3. Zoology; 4. Human Physiology; 5. Geology. From Department H not more than one subject may be taken.

The subjects in Group (d) are arranged in five departments, viz.:—Department A—English Language and Literature. Department B—1. Latin; 2. Greek; 3. French; 4. Italian; 5. German. Department C—1. Mathematics; 2. Natural Philosophy; 3. Astronomy. Department D—1. Psychology, Logic, and Metaphysics; 2. Moral Philosophy; 3. Political Economy; 4. History; 5. Scripture. Department E—1. Chemistry; 2. Botany; 3. Geology and Physical Geography; 4. Zoology; 5. Physiology. The range of selection allowed to the candidates for the Higher Certificate varies according to their preliminary

qualifications. If the Candidate has taken the Senior Certificate in the Local Examinations of any University, or if she has attained the age of 18 years, and passed in the subjects included under Group (a), or an equivalent examination, she may offer herself for examination in at least *three* and not more than *six* subjects taken from at least three of the departments. If the Candidate has attained the age of 18 years, but has not passed the examination specified above, she may offer herself for examination in Department A, and, in addition, in at least *three* and not more than *five* subjects, taken from at least two of the remaining departments, provided always that one of these additional subjects shall be Mathematics or taken from Department B. No girl under the age of 18 is admitted to the examination for the Higher Certificate unless she holds a Senior Certificate.

The subjects in Group (e) are also arranged in five departments, viz. :—Department A—English Language and Literature. Department B—1. Latin ; 2. Greek. Department C—1. Mathematics ; 2. Natural Philosophy. Department D—1. Psychology, Logic, and Metaphysics ; 2. Moral Philosophy. Department E—1. Chemistry ; 2. Botany ; 3. Geology ; 4. Zoology ; 5. Physiology. Candidates are required to select at least *five* of these subjects from at least three departments. They have it in their option to complete their examination in all the subjects in one year, or to distribute them over a period not exceeding three years.

Subject to the condition that Candidates are not entitled to Honours or Commendation unless they pass in all the Special Subjects in one year, successful Candidates for the Senior and the Junior Certificate are ranked in three grades according to the degree of proficiency displayed, viz. :—

1. With Honours.—Those who pass with an average of not less than 75 per cent. of the marks attainable in each of their Special Subjects. Candidates who obtain such percentage in the maximum number of Special Subjects which they are allowed to take up will be recorded as having passed with highest Honours.

2. With Commendation.—Those who pass with an average less than 75 per cent. but not less than 60 per cent. of the marks attainable in each of their Special Subjects. Candidates who obtain such percentage in the maximum number of subjects will be recorded as passing with Special Commendation.

3. Pass.—Those who obtain pass marks in the requisite subjects, but fail to attain to the Standard for Commendation.

Passing with Honours or with Commendation will be recorded in the Certificates, as well as in the Report and books of the Board.

Those who obtain Higher Certificates are arranged in Classes, with a deduction in the case of Candidates who take more than three subjects of 50 per cent. for each subject in excess of three.

An Honour List is published containing the names of those candidates for the Higher Certificate and the Degree Subjects Certificate who obtain 75 per cent. and upwards in each of two or more subjects.

No certificate is granted if the subjects in which the candidate has passed belong to only one department. In the Higher Examination a candidate, in order to obtain a Certificate, must pass in subjects taken from at least three departments. The certificate in Degree Subjects is not granted until the candidate has passed in five subjects taken from at least three departments.

Candidates may enter for examination in the Common Subjects on payment of a fee of 10s. Candidates who have passed in the Common Subjects may enter for examination in the Special Subjects for the Junior Certificate on payment of a fee of 10s., and for examination in the Special Subjects for the Senior Certificate on payment of a fee of £1. Candidates may enter for examination in all the Subjects (Common and Special) for the Junior Certificate on payment of a fee of £1, and for examination in all the Subjects (Common and Special) for the Senior Certificate on payment of a fee of £1 10s. Holders of Junior Certificates of this University or of any other University whose Certificates may be recognised by the Board may enter for examination in the Special Subjects for the Senior Certificate on payment of a fee of £1.

Candidates for the Higher Certificate who hold a Senior Certificate, or who have passed in the subjects included under Group (*a*) are required to pay a fee of Two Guineas. Other candidates are required to pay Three Guineas.

Candidates for the Certificate in Degree Subjects are required to pay a fee of Three Guineas.

Any holder of a Certificate may, on payment of a fee of ten shillings, be admitted to examination in one or more additional subjects, with the view of adding to the value of the Certificate previously obtained.

Candidates who have not been successful may reappear for examination on the following terms:—

1. Any Candidate who has failed in only one of the Common Subjects, *i.e.* Group (*a*), shall, on application in a subsequent year, be admitted to examination in that subject without payment of additional fee, and without requiring to undergo examination again in the subjects already passed.

2. Any Candidate who has failed in more than one of the Common Subjects shall, on application in a subsequent year, be admitted to examination in the whole of the Common Subjects on payment of a fee of ten shillings.

3. Any Candidate who has failed in only one of the Special Subjects, *i.e.* Group (*b*), (*c*), or (*d*), shall, on application in a subsequent year, be admitted to examination in that subject, so as to complete the minimum requirements for a Certificate, without payment of additional fee, and to examination in any other subject or subjects on payment of a fee of ten shillings.

4. Any Candidate who has failed in more than one of the Special Subjects, but who has passed in such subjects as, with the addition of one of those in which the candidate failed, would have sufficed for a Certificate, shall, on application in a subsequent year, be admitted to

examination in *that* subject without additional fee, and to examination in any other subject or subjects on payment of a fee of ten shillings.

5. Any Candidate who has failed in all the Special Subjects or in all but one of the Special Subjects selected shall, on application in a subsequent year, be admitted to examination in the subjects previously attempted, or in any three or more of them, on payment of a fee of ten shillings, and to examination in any other subject or subjects (but so as not to exceed the prescribed number), on payment of a further fee of ten shillings.

Fees are not returned under any circumstances.

EXAMINATION OF SCHOOLS.

I. Applications to the Board for the appointment of Examiners should be made *before the 10th of April, 1891*. The subjects in which examination is sought must be submitted to the Board for approval.

The Board reserves the right of declining to entertain an application for the appointment of Examiners.

The Examiners' reports will be submitted to the Board before transmission to the Managers or Head-Masters of the schools examined.

The fee for the services of each Examiner is three guineas per day of six hours, whether spent in examining classes or reading written papers.

II. The Managers of any school may present their pupils at the Local Examinations on the following conditions:—

1. The pupils shall be arranged in at most three divisions corresponding to the three groups of Local Examination subjects. When they are arranged in three divisions, papers on the Special Subjects for the Senior Certificate will be set to the highest division; papers on the Special Subjects for the Junior Certificate to the second division; and papers on the Common Subjects to the lowest division. When they are arranged in two divisions or in one division only, the Managers shall specify the two groups or the one group of subjects in which they wish their pupils examined.

2. No Certificate will be given to the pupils thus examined.

3. A fee of 5s. shall be paid for each pupil.

A special report, stating the results obtained by each pupil in the several subjects of examination, will be sent to the Managers.

Detailed information as to the Subjects of Examination may be found in the Report of the Board for 1890 (containing also the Regulations for 1891), published by Messrs. James MacLehose & Sons, Publishers to the University, 61 St. Vincent Street, Glasgow. Price 6d., or per post, 8d.

APPENDIX III.

LIST OF EXTRA-ACADEMICAL LECTURERS.

List of Extra-Academical Lecturers whose lectures have been recognised by the University Court of the University of Glasgow, for the purpose of graduation in Medicine, in terms of Ordinance No. 15, Glasgow No. 2, section viii., sub-section 5 :—

2 Oct., 1867,	Stevenson M'Adam, Ph.D., Edin.,	<i>Chemistry.</i>
29 July, 1875,	Joseph Coats, M.D., Glasgow,	<i>Pathology.</i>
10 Nov., 1875,	James Dunlop, M.D., Glasgow,	<i>Surgery.</i>
1 Dec., 1875,	Dr. Thorpe, South Kensington,	<i>Chemistry.</i>
19 April, 1876,	Dr. James Gow Black, Otago,	<i>Chemistry.</i>
"	Miller Coughtrey, M.B., Otago,	<i>Anatomy.</i>
7 Nov., 1876,	Henry E. Clark, F.F.P.S.G.,	
	M.R.C.S.E., Glasgow,	<i>Anatomy.</i>
"	John Dougall, M.D., Glasgow,	<i>Materia Medica.</i>
"	Alex. Lindsay, M.D., Glasgow,	<i>Medical Jurisprudence.</i>
"	James Stirton, M.D., Glasgow,	<i>Midwifery.</i>
7 March, 1877,	Thomas M. Hocken, M.R.C.S.E.,	
	L.S.A., Lond., Otago,	<i>Clinical Surgery.</i>
"	Dr. Gillies, Otago,	<i>Clinical Medicine.</i>
12 Sept., 1877,	A. M. Buchanan, M.D., Glasgow,	<i>Anatomy.</i>
"	Robert Perry, M.D., Glasgow,	<i>Clinical Medicine.</i>
"	Jas. Finlayson, M.D., Glasgow,	<i>Clinical Medicine.</i>
"	Alex. Patterson, M.D., Glasgow,	<i>Clinical Surgery.</i>
15 May, 1879,	David N. Knox, M.B., Glasgow,	<i>Systematic Surgery.</i>
21 Dec., 1880,	A. G. Miller, M.D., F.R.C.S.E.,	
	Edinburgh,	<i>Surgery.</i>
"	Joseph Bell, M.D., Edinburgh,	<i>Clinical Surgery.</i>
"	William Craig, M.D., Edinburgh,	<i>Materia Medica and</i>
		<i>Therapeutics.</i>
"	J. O. Affleck, M.D., Edinburgh,	<i>Practice of Medicine.</i>
"	Dr. F. W. Moinet, Edinburgh,	<i>Materia Medica and</i>
		<i>Therapeutics.</i>
"	John Barlow, M.D., Glasgow,	<i>Physiology.</i>
"	Samson Gemmell, M.D., Glasgow,	<i>Practice of Medicine.</i>

24 May, 1881,	Byrom Bramwell, M.D., Edin.,	<i>Practice of Medicine.</i>
7 Dec., 1881,	Hector C. Cameron, M.D., Glas-	
	gow,	<i>Clinical Surgery.</i>
"	Gavin P. Tennent, M.D., Glasgow,	<i>Clinical Medicine.</i>
26 Jan., 1882,	David C. M'Vail, M.B., Glas.,	<i>Practice of Medicine.</i>
"	James M. Milne, Ph.D., Glasgow,	<i>Chemistry.</i>
"	William L. Reid, M.D., Glasgow,	<i>Midwifery.</i>
13 Feb., 1883,	Wm. MacEwen, M.D., Glasgow,	<i>Surgery.</i>
"	David Newman, M.D., Glasgow,	<i>Pathology.</i>
"	John Glaister, M.D., Glasgow,	<i>Forensic Medicine.</i>
"	Neil Carmichael, M.D., Glasgow,	<i>Materia Medica.</i>
"	Eben. Duncan, M.D., Glasgow,	<i>Medical Jurisprudence.</i>
27 May, 1884,	Johnson Symington, M.D., Edin-	
	burgh,	<i>Anatomy.</i>
22 July, 1885,	James J. Dobbie, M.A., D.Sc.,	
	University Coll., Bangor,	<i>Chemistry.</i>
"	Reginald W. Phillips, B.A., B.Sc.,	
	University Coll., Bangor,	<i>Botany.</i>
29 Oct., 1885,	William Dittmar, Anderson's Col-	
	lege, Glasgow,	<i>Chemistry.</i>
28 April, 1886,	A. Smithells, B.Sc., Yorkshire	
	College, Leeds,	<i>Chemistry.</i>
4 Oct., 1887.	Claud M. Thompson, University	
	College, Cardiff,	<i>Chemistry.</i>
"	W. Newton Parker, University	
	College, Cardiff,	<i>Zoology.</i>
31 Oct., 1888,	Alexander Robertson, M.D., Glas.,	<i>Clinical Medicine.</i>
20 Mar., 1889,	Alexander Napier, M.D., Glas.,	<i>Materia Medica.</i>
27 Feb., 1890,	James Robertson Watson, M.A.,	
	Glasgow,	<i>Chemistry and Practi-</i>
"	James Christie, M.D., Glasgow,	<i>cal Chemistry.</i>
"	John Lindsay Steven, M.D., Glas.,	<i>Physiology.</i>
"	Alex. Robertson, M.D., Glasgow,	<i>Pathology.</i>
"	Alex. Robertson, M.D., Glasgow,	<i>Practice of Medicine.</i>
"	Philip J. White, M.B., University	
	College, Bangor,	<i>Zoology.</i>

APPENDIX IV.

GLASGOW UNIVERSITY EXTENSION BOARD.

The University has organised a scheme for the extension of University teaching, by means of local lectures and classes, upon the lines which have proved so successful in the case of the Universities of Oxford and Cambridge. Its purpose is to give, as far as possible, the advantages of

University education to those whose circumstances do not permit them to attend the University. It is especially intended to meet the wants of (1) ladies, (2) clerks and other persons engaged in business, and (3) artizans of all classes. The Scheme is under the management of the following Board :—Sir James King, Bart., LL.D., *Chairman*; *Robert Gourlay, Manager, Bank of Scotland, St. Vincent Place, Glasgow, *Hon. Treasurer*; *Professor M'Kendrick, M.D., F.R.S., The University, Glasgow, and *Archibald Craig, M.A., LL.B., Writer, 156 St. Vincent Street, Glasgow, *Hon. Secs.*; Professor M'Call Anderson, M.D.; Professor Barr, D.Sc.; *William Bathgate, M.A., H.M.I.S.; Walter G. Blackie, LL.D.; Professor Bower, M.A., D.Sc.; *Professor Bradley, M.A.; Rev. James Brown, D.D.; *J. Cleland Burns; Professor Buchanan, M.D., LL.D.; The Very Rev. Principal Caird, D.D.; *Professor E. Caird, LL.D.; James Campbell of Tullichewan; Professor Charteris, M.D.; William Clark; Stewart Clark of Kilnside; Professor Cleland, M.D., LL.D.; Mrs. Archibald Coats; Thomas Glen Coats; George Crichton; Alexander Crum of Thornliebank; Sir John Neilson Cuthbertson; Peter Denny, LL.D.; The Rev. Professor Dickson, D.D.; The Rev. Principal Douglas, D.D.; *Henry Dyer, M.A., D.Sc., C.E.; Professor Ferguson, LL.D.; David Forsyth, M.A., D.Sc.; Charles Gairdner, LL.D.; Professor Gairdner, M.D., LL.D.; James Grahame; Professor Grant, LL.D.; *The Rev. David Hunter, B.D.; *John Hutchison, LL.D.; *Professor Jack, LL.D.; Professor Jenkins; William Jolly, H.M.I.S.; William Ker; J. H. Kerr; John Kerr, LL.D., H.M.I.S.; Professor Leishman, M.D.; *Mrs. Lindsay; Sir James D. Marwick, LL.D.; *Colonel Sir Donald Matheson, K.C.B.; T. A. Mathieson; Professor Moir; Donald Morrison, LL.D.; Thomas Muir, LL.D.; Professor Murray, B.A.; James Macdonald, LL.D.; *The Rev. A. R. M'Ewen, B.D.; A. B. M'Grigor, LL.D.; Professor Sir G. H. B. Macleod, M.D.; Professor Nichol, LL.D.; Miss Grace Paterson; R. W. Cochran Patrick of Woodside, LL.D.; *Professor Ramsay, LL.D.; The Rev. Professor Robertson, D.D.; Thomas Russell of Ascog; Professor Simpson, M.D.; *William Smart, M.A.; J. Parker Smith of Jordanhill, M.P.; Sheriff Spens, LL.D.; Alexander Stephen; *The Rev. Professor Stewart, D.D.; The Rev. Professor Story, D.D.; Professor Moody Stuart; Professor James Thomson, LL.D.; Professor Sir William Thomson, LL.D., D.C.L.; Professor Veitch, LL.D.; *The Rev. John Watt, D.D.; *Mrs. R. M. Wenley; *Professor Young, M.D.

Those marked * constitute the Executive.

A Prospectus giving an account of the movement and of the mode of working it, together with a list of lecturers and subjects, may be had (post free) on application to Mr. Craig, one of the Secretaries, to whom communications by local committees and all persons interested should be addressed.

APPENDIX V.

STUDENTS' SOCIETIES.

GLASGOW UNIVERSITY UNION.

At a Meeting of Students and Graduates, held on the 14th day of February, 1885, it was unanimously resolved to establish a Glasgow University Union. A sum sufficient to erect a building for this purpose having been offered to the Senate by JOHN M'INTYRE, Esq., M.D., Odiham, Hampshire, and the Senate having accepted this gift, Articles of Constitution were drawn up by a Committee of Students and Graduates, and received the approval of the Senate, the Donor, and of the Students' Representative Council.

Objects.—The objects of the Union are to maintain Reading and Writing Rooms, to hold Debates, to promote social intercourse among the Members, and to form a centre to which the various University Societies may be affiliated.

Membership.—The Members of the Union are Ordinary Members or Life Members.

Ordinary membership of the Union is open to (1) all matriculated Students of the University, and all Medical Students of Glasgow whose names are enrolled in the Extra-mural Album of the University, on payment of an Annual Subscription of Five Shillings, and (2) all former Students of the University on payment of an Annual Subscription of Ten Shillings and Sixpence.

All matriculated Students and former Students of the University may, on payment of the sum of Three Pounds Three Shillings, become Life Members of the Union.

President—Robert Bell.

Vice-President—C. O. Hawthorne, M.B., C.M.

Secretary—John Paterson, M.A.

Treasurer—M. P. Fraser, LL.B.

Librarian—W. S. M'Cormick, M.A.

Committee of Management—Graduates—Dr. Joseph Coats, William Smart, M.A.; Rev. Gavin Lambie, M.A.; John C. Guy, LL.B., advocate; Dr. Middleton, Dr. F. Fergus, James J. MacLehose, M.A.; George G. Henderson, M.A., D.Sc.; Dr. George Dickson, and J. H. Harley, M.A.

Students—Alexander Ralston, William Newlands, Donald Murray, P. O. W. Browne, H. S. Carslaw, A. F. Macrae, W. P. Hanks, H. A. Blacklaw, R. S. Horne, Joshua Ferguson, Fred. Macquisten, W. J. M'Kendrick, D. J. Allison, J. M'Naught, M.A., and D. Jerdan.

Board of Directors.—The Office-bearers, and Messrs. Newlands, Horne, Macquisten, and Dr. Coats.

Library Committee—The Librarian, and Messrs. Murray, Ralston, MacLehose, Macrae, Browne, and M'Naught.

THEOLOGICAL SOCIETY.

The object of the Society is to discuss, by means of essays and debates, theological and ecclesiastical questions. The membership of the Society is open to all students attending the Divinity Hall of the University; but all matriculated students in faculties other than the Faculty of Divinity are eligible for extraordinary membership.

Honorary President—The Very Rev. Principal Caird, D.D., LL.D.

President—Matthew S. Dickson, M.A.

Vice-President—John White.

Secretary—J. Steven Burns, M.A.

Treasurer—John E. Black.

Committee.

John Colville, M.A.

J. Gillan.

J. M. Crawford.

J. W. Macdonald, M.A.

(With two other members to be elected in November.)

MEDICO-CHIRURGICAL SOCIETY.

The principal business of the Society is the prosecution of Medical Research by Dissertations and Debates.

All Medical Students and Medical Men of one year's standing are eligible for Ordinary Membership, which may be obtained on payment of the Annual Subscription of One Shilling.

Medical Students, if Members of the Union, may enrol as Members of the Society, free of charge.

Meetings of the Society are held in the Union Buildings every Friday Evening during the Winter Session, at 7 o'clock.

Office-Bearers for 1890-91.

Honorary President—Professor George Buchanan, M.A., M.D., LL.D.

President—Donald Murray.

Vice-Presidents.

Senior—Edward Evans.

Junior—P. O. W. Browne.

Secretaries.

Corresponding—W. J. M'Kendrick, 45 Westbourne Gardens, Kelvinside.

Minute—F. Gairdner.

Treasurer—C. H. M'Iraith, M.A.

Librarian—A. L. M'Leod, M.A., 1 Meadowbank Crescent.

Committee.

W. M. Holmes.

G. D. S. Heyliger.

R. C. Robertson, M.A.

A. A. Warden, M.A.

J. Lindsay, M.A.

J. Selkirk, M.A.

(And two students of the First year to be elected in November.)

Books given out at Weekly Meetings, or during Week by written application.

DIALECTIC SOCIETY.

Honorary President.

W. T. Gairdner, M.D., LL.D., Professor of Practice of Medicine.

<i>President</i> —Alexander Ralston, Junr., M.A.	
<i>Vice-Presidents.</i>	<i>Secretaries.</i>
<i>Senior</i> —John Paterson, M.A.	<i>Senior</i> —Fred. A. Macquisten.
<i>Junior</i> —R. S. Horne.	<i>Junior</i> —W. Parker Hanless.
<i>Treasurer</i> —H. A. Blacklaw.	
<i>General Board.</i>	
W. Newlands.	Joshua Ferguson.
Horatio S. Carslaw.	Douglas B. Binning.
J. W. Cleland.	Ernest Gunson.
D. J. Allison.	John M. Manford.
James Gemmell.	

The Society meets weekly during the Session for the discussion of Literary, Philosophical, and Political subjects.

All Students of the University are eligible for Ordinary Membership, which is obtained by payment of the Annual Subscription of One Shilling.

GLASGOW UNIVERSITY ORIENTAL SOCIETY.
(Instituted 1880.)

The object of the Society is the study of the languages and literatures of the East.

All Students of Oriental languages are eligible for election to the membership.

The Society meets twice a year—in the months of April and October.

Office-Bearers.

<i>President</i> —Rev. Professor James Robertson, D.D.
<i>Vice-President</i> —Mr. R. B. Pattie, B.D.
<i>Corresponding Secretary</i> —Rev. James Young, B.D.
<i>Recording Secretary</i> —Rev. A. Cameron Watson, B.D.
<i>Treasurer</i> —Rev. George Anderson, B.D.

GLASGOW UNIVERSITY ALEXANDRIAN SOCIETY.

This Society was formed in January, 1887. It has for its chief object the discussion of questions connected with the Literatures of Ancient Greece and Rome. The membership is open to Members of the University. Any distinguished Scholar or any Member of the University of five years' standing or any person officially connected with the University is eligible for Honorary Membership.

Office-Bearers.

<i>Honorary Presidents.</i>
Professor G. G. Ramsay, LL.D.
Professor G. G. A. Murray, B.A.
<i>President</i> —John Brown, M.A.
<i>Vice-President</i> —James P. Wilson.
<i>Secretary</i> —Edward H. Wallace.
<i>Treasurer</i> —John Liddell.

Committee.

W. Newlands.
A. G. Thomson.

James Ferguson.
R. G. Nisbet.

GLASGOW UNIVERSITY PHILOSOPHICAL SOCIETY.
(Instituted 1887.)

The Society was instituted for the promotion of Philosophical Discussion and Investigation, and meets on Tuesday Evenings at Half-past Seven during the Winter Session. Ordinary Membership is open to all Students who have attended or who are attending Philosophical Classes in any University. Applications for Membership (due notice having been given) are disposed of by ballot, the concurrence of three-fourths of the Members voting being necessary for admission. The annual subscription is half-a-crown.

*Office-Bearers for Session 1890-91.**Honorary Presidents.*

Principal Caird,	} <i>Ex Officiis.</i>
Professor Veitch,	
Professor Edward Caird,	
Professor A. C. Bradley,	
Professor Max Müller,	
Professor Andrew Seth, University of St. Andrews.	

Presidents.

John White.		Joshua Ferguson.
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Secretary—Robert Bailie Douglas.

Treasurer—Robert Bulloch Douglas.

Members of Committee.

Robert Serymgeour, M.A.	|	John E. Black, M.A.
R. S. Horne.	|	

(And three others to be elected in November.)

GLASGOW UNIVERSITY ORCHESTRAL SOCIETY.

This Society was formed in January, 1885, at a general meeting of Students, presided over by Wm. Galbraith Miller, Esq. The Society has for its object the promotion of the study and practice of Instrumental Music among Members of the University. The membership is open to present and former Students of the University. Others, however, may be admitted by special resolution of the Committee.

Patrons. (1888-89.)

The Very Rev. Principal Caird.

Professor Sir William Thomson.

Professor Young.

„ Grant.

„ Stewart.

„ Nichol.

„ Ferguson.

„ Gairdner.

„ Jebb.

„ Ramsay.

„ M'Kendrick.

„ Veitch.

„ Robertson.

„ Edward Caird.

„ Jack.

W. Galbraith Miller, Esq., Advocate.

J. T. Bottomley, Esq., F.R.S.

Office-Bearers. (1888-89.)

Honorary President.

Professor Young.

President—Professor Ferguson.

Secretary and Treasurer—George Guthrie, M.A., LL.B.,
21 Montgomerie Drive.

Librarian—Robert G. Reid.

General Committee.

W. G. Miller, Esq.

Charles E. Beckett, M.A., LL.B.

V. Zinkeisen, jr.

Robert G. Reid.

Conductor—Mr. Montague Smith.

UNITED MUSICAL SOCIETY OF THE UNIVERSITY OF GLASGOW AND
QUEEN MARGARET COLLEGE.

1. This Society, which is the result of the union of the Choral Societies of the University of Glasgow and of Queen Margaret College, has as its object the cultivation by its members of music generally, but more especially of Choral singing.

2. The Society consists of :—

I. *Choral Members*, who may be—

- (i) Ladies of the Queen Margaret College of present or past Sessions.
- (ii) Students of the University, past and present.
- (iii) The Professors and members of Professors' families; or Members of the Council of Queen Margaret College, and members of their families.
- (iv) Members who, though not connected directly with either of the above Institutions, wish to join in the Choral singing.

II. *Honorary Members*, who though not wishing to join the Chorus, desire to support the Society: they will be admitted to the Rehearsals, and will have votes at public business meetings.

3. The Chorus will be limited to 120 Members, of whom not more than 60 are to belong to either of the Classes (i) or (ii).

4. The Conductor is Mr. Montague Smith.

5. The Executive Committee consists of—

- (i) The Conductor.
- (ii) Two Members of the Council of Queen Margaret College.
- (iii) Two Members of Senate of the University.
- (iv) Two Delegates from the students of Queen Margaret College.
- (v) Two Delegates from the students in the University—
with power to add to their numbers.

Secretary—John Campbell, M.A., 52 Buccleuch Street, Glasgow.

Assistant Secretary—D. H. Gillan.

Librarian—John Macara.

Treasurers— { William Campbell, M.A.
 { John Livingston.

Members of Committee.

From Theology—

William Main.

J. S. Burns, M.A.

A. Maclaren.

J. W. Macdonald, M.A.

John White, M.A.

Andrew Campbell.

From Arts—

Gavin L. Pagan.

A. B. Nielson.

S. D. Cowan.

From Law—

T. J. Brown.

From Medicine—

M. Macnicol, M.A.

John C. Young.

GLASGOW UNIVERSITY CHRISTIAN ASSOCIATION.

The object of this Society is the promotion of religious life and fellowship in the University.

In connection with the Association there are held—Weekly Prayer Meetings, occasional Sabbath Evening Services, Bible Readings, etc.

Office-Bearers.

Hon. President—Professor A. Moody Stuart.

Hon. Vice-President—James Moffatt, M.A.

President—William D. Miller.

Vice-President—John C. Young.

Secretary—Andrew B. Nielson, Bank of Scotland House.

Assist.-Secretary—John M' Ara.

Treasurer—Frank H. L. Paton.

Assist.-Treasurer—Samuel D. Cowan.

Committee.

Chas. B. Beard.

P. O. W. Browne.

George Duncan.

Arch. E. Robertson.

William Scott, M.A.

Andrew G. Thomson.

GLASGOW UNIVERSITY TOTAL ABSTINENCE SOCIETY.

(Instituted 1844.)

The object of the Society is to bring together, by means of social meetings, etc., the abstaining students in the University, and to carry on Temperance Mission Work.

Office-Bearers for 1890-91.

Honorary President—Professor G. G. A. Murray, B.A.

Honorary Vice-Presidents.

Rev. J. Marshall Lang, D.D. | Geo. A. Gibson, M.A.

J. Campbell White, Esq. | Wm. Snodgrass, M.A., M.B.

President—Alexander Allison.

Vice-President—Malcolm Macnicol, M.A.

Secretary—Norman M. Wright, 310 Renfrew Street.

Treasurer—George Duncan.

Committee.

Andrew Campbell.
A. F. Campbell.
S. D. Cowan.
J. Hamilton.

Geo. Macmillan.
William Scott, M.A.
Malcolm Sinclair.
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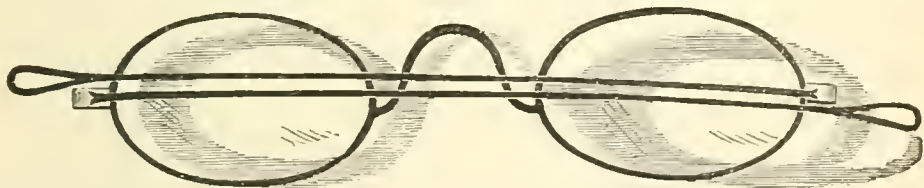
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Banking Sale and Shipping Law, 5 p.m. A.W.S.	ALEXANDER WATT.
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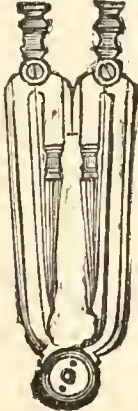
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